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CVO report Intern

Number: CVO 07.009

Market Sampling of Landings of Commercial Fish Species in the Netherlands in 2005

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Project number: 439121001

Date: 21 November 2007

Number of copies: 17
Number of pages: 109
Number of tables: 22
Number of figures: 22

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Summary

The biological market-sampling programme for marine fish species provides, together with the information from the assessment surveys by research vessels, the information which is essential for relating changes in the fish stocks to changes in the fishery. The market sampling program in the Netherlands comprises the collection of fish samples from commercial catches, the analysis of these samples (estimation of length, weight, sex, sexual maturity and age), and the conversion of the national catches in tonnes to age compositions in numbers together with the additional information on mean weight at age, mean length at age, etc. In a later stage, this information by country is combined to figures representative for the whole fish stock. These combined international data, collected over many years, form the basis for the analysis of population dynamics and for providing biological advice on fishery management.

The age of a fish is determined from the otoliths (ear bones) taken out of the head. Because of seasonal changes in growth (due to food availability, temperature, spawning) ring structures are formed in the otolith similar to the ring structures on transverse sections of a tree. Age determination is important because from the annual age compositions, the annual increase in length and weight can be traced. This allows a quantification of important processes such as growth, recruitment of new age groups, mortality etc.

This report contains information on the biological sampling from the market sampling program in 2005: which species were sampled, how they were caught, when and where the samples were taken (date and position), how many fish have been measured, how many fish have been aged, etc. The report gives an overview of all the biological sampling activities in 2005 by IMARES on the landings of the commercial important species of herring, mackerel, horse mackerel, blue whiting, greater argentine, sole, plaice, turbot, brill, dab, lemon sole, cod, whiting, Norway lobster, bass, red mullet and four different species of rays from all ICES areas. This biological sampling took place on landings by both the Dutch fleet as well as foreign fleets landing in the Netherlands.

Index tables and figures

Detailed information on sampling in **2005** is described in this report in tables and figures. The overview below show the table and figure numbers corresponding to the species described.

2005	Market Sampling	
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1 Introduction

In the framework of the biological monitoring of the stocks of commercially important marine fish species, which are exploited by fishing fleets and are subject to EU management regulations, annual routine sampling programs of the landings in the Netherlands have been carried out since 1955 for pelagic species and since 1957 for demersal species. The information collected in these sampling programs concerns annual and quarterly age-length keys (ALK's), length distributions, weight at age and maturity at age. Combined with national statistics on nominal landings by size category as used in the fish market, age distributions of the landings, at various levels of aggregation, can be constructed. Amongst other data, this data are used in assessments of the state of the stocks by the International Council for Exploration of the Sea (ICES, www.ices.dk). The biological market sampling program has been financially supported by the EU from 1995 to 2002 by various contracts. From 2002 onwards the Dutch market sampling is part of the data collection regulation under EU Regulation 1639/2001. The research carried out in 2005 represents part of an international framework of national market sampling programs, which form the basis for fish stock assessment and management advice. The data obtained are essential to evaluate the probable effects of the various measures aiming at the conservation and management of fishery resources (TAC's and quota's) as laid down in the Common Fishery Policy.

The details of the planning of the 2005 market sampling is given in The Netherlands National Programme for Collection of Fisheries Data in 2005 and carried out in "Programma Wettelijke en Dientsvlernende Taken Visserijonderzoek 2002-2005 (WERKPLAN 2005, van Beek 2005). This report presents the actual biological sampling of the landings in 2005, as carried out following the workplan. This report does not include an evaluation of the sampling, as this is included in the "Technical Report of Activity 2005 – The Netherlands" (Anon., 2006). Sampling in previous years have been presented several RIVO reports, which are listed in section 5. A brief description of the sampling procedures presently applied in the Netherlands is given. The market sampling program in 2005 comprised the following species: sole, plaice, turbot, brill, dab, lemon sole, cod, whiting, herring, mackerel, horse mackerel, blue whiting, greater argentine, blond ray, spotted ray, starry ray, thornback ray, cuckoo ray, Norway lobster, red mullet and bass..

In earlier reports the additional samples taken during research vessel surveys were presented as well. From 2003 onwards, the results of this sampling are no longer included in this report. An overview of samples taken during surveys can be obtained from the IMARES FRISBE-database.

Details of the biological sampling for the 2005 market-sampling program as well as the survey sampling are presented in tables and figures. The sample characteristics are stored in an Excel-sheet during the year to provide an insight in the progress of the sampling by species. The tables and figures in this report are based on this spreadsheet and are created automatically by SAS-code developed by Jan Jaap Poos.

The Index of Tables and Figures by species is given after the Table of Contents in the beginning of this report. The table and figure numbers are kept identical by species for fast table and figure searching. The a, b, c and d after the table or figure numbers refer to respectively the 1st, 2nd, 3rd and 4th quarter, even if samples were only taken in 1 quarter, e.g. greater argentine which has a 2nd quarter sample only. The e,f,g,h refer to separate length measurements by quarter by species where relevant.

2 Sampling procedures

2.1 Plaice, Sole, Turbot, Brill, Lemon sole and Dab

Almost all of the plaice, sole, turbot, brill, lemon sole and dab landed in the Netherlands are caught by beam trawlers, which are fishing almost exclusively in the North Sea. Table 1 shows the market size categories for these species together with the number of fish taken in 2005 by IMARES per size category for an age and length sample.

Representative sampling by size category, by harbour and by quarter

Representative sampling by size category, by harbour by quarter is carried out for plaice, sole, turbot and brill. Representative sampling implies that by size category the length distribution of the sample corresponds to that of the landings of that size category. Each fish sample consists of a certain number of fish per size category from one vessel, which is taken in a fish auction (see Table 1). There are three levels of stratification: by harbour, quarter and market size category. Sampling is restricted to 4 major landing ports (Den Helder, Stellendam, Urk and IJmuiden), which account for about 80% of the national landings. The number of samples are taken approximately in proportion to the expected landings in these ports and take account of differences in effort of various fleet components in different fishing areas. The sampling levels are based on both the Dutch as well as the foreign landings in the Netherlands.

Sampling during spawning time (plaice: first quarter; sole, turbot and brill: second quarter) is intensified to obtain detailed biological parameters (maturity data and weight at age of the stock).

Plaice landings are marketed in 4 and sole in 5 size categories. Samples consist of 15 (plaice) or 10 (sole) fish in each size category bought from the vessel selected.

Turbot landings are marketed in 6 and brill in 3 size categories. Samples consist of 10 (turbot) or 15 (brill) fish in each size category bought from the vessel selected.

In addition, the total landings of the vessel, the amount landed in each size category, gear, fishing position, vessel name and vessel characteristics are recorded. No separate length samples are taken. The fish are measured and weighed. The ovaries are weighed during the whole year in the laboratory. Sex and stage of maturity are recorded and both otoliths are removed for age determination. The age of the fish is determined by counting the number of rings on the slides of the sectioned otoliths.

Details on the planning of the sampling and the actual number of samples taken, are reported in "Technical Report of Activity 2005 – The Netherlands" (Anon., 2006).

Representative sampling by size category and by quarter

Representative sampling by size category and by quarter is carried out for lemon sole. There are two levels of stratification: by quarter and market size category. Sampling is carried out in Urk and IJmuiden.

Non-representative sampling by quarter

Non-representative sampling by quarter is carried out for dab. This implies that each quarter both length and age samples are collected. Sampling is carried out in IJmuiden, Urk, Vlissingen and Stellendam

2.2 Cod and Whiting

Cod and whiting are caught by beam trawlers, pair trawlers and otter trawlers in the North Sea. The latter two fleets have almost disappeared over the last ten years. Roundfish is mainly sampled in the auctions of IJmuiden and Urk and partly in Stellendam and Vlissingen. The distribution of the age and length sampling by quarter should reflect the landings by quarter. Table 1 shows the market size categories for cod and whiting together with the number of fish taken in 2005 by IMARES per size category per age or length sample.

Cod landings are sorted in 6 market categories. Otolith samples and length measurements are taken in the auction. An age sample from an individual vessel consists of approximately 50 fish (1 otolith per fish) and each length sample consists of at least 50 fish. Age reading is carried out on sectioned otoliths mounted on slides.

Whiting landings are usually sold unsorted. Length measurements are collected in the auction. The age samples are bought and processed in the laboratory. Each sample consists of 50 fish and both otoliths are collected. Age reading is carried out on sectioned otoliths mounted on slides.

Prior to the assessment working group meetings, age-length-keys are prepared for each quarter. Based on the samples, the quarterly length composition per market category is calculated. Information from a number of fish auctions on the landings per market size category is used to raise the quarterly landings by market category. The age-length keys are then used to derive the quarterly numbers and weights at age.

2.3 Herring, Mackerel, Horse Mackerel, Blue Whiting and Greater Argentine

The Dutch pelagic fleet consists of large freezer trawlers and pair trawlers, all using a pelagic trawl. In addition, a number of freezer trawlers and pair trawlers fishing under German, English and French flags land their fish mainly in the Netherlands (IJmuiden, Scheveningen or Vlissingen). The market sampling intensity has taken into account the landings of these 'foreign' vessels in the Netherlands. Biological samples of pelagic fish (horse mackerel, mackerel, herring, blue whiting and greater argentine) are taken from catches of the commercial fleet landing in the Netherlands. There are no size categories for the fish landed by the pelagic trawlers.

On board of a number of selected commercial vessels, crewmembers, trained for their task by IMARES staff, are taking unsorted fish samples (frozen blocks of 20-23 kg) from the catches according to instructions obtained from IMARES. These vessels are also supplying information on all hauls (dates, positions, hours fishing, species compositions, etc.). The ships collect samples only from medium to large catches. The sampling scheme is that at least one or two samples per week per fish species per ICES Division or Subdivision are taken. This way of sampling has the advantage that the distribution of the collected samples represents roughly the distribution of the fishery by the pelagic fleet.

The frozen samples are collected immediately after arrival of the vessels in a Dutch port. The samples are weighted and all fish are sorted into cm-groups in the laboratory. A sub-sample of 25 fish, representative for the length distribution in the sample is taken for further biological measurements such as age, weight, sex and maturity in such a way that the length frequency distribution in the sub-sample is representative for the length distribution of the total catch.

2.4 Rays

From 2001 onwards IMARES included the length sampling of rays from commercial landings. These species include blond ray, cuckoo ray, spotted ray, starry ray and thornback ray.

Rays are caught by beam trawlers, pair trawlers and otter trawlers in the North Sea. The latter two fleets have almost disappeared over the last ten years. Rays are sampled in the

auctions of IJmuiden, Urk and Stellendam. Table 1 shows the market size categories for rays together with the number of fish taken in 2005 by IMARES per size category for a length sample. Rays are sorted in 4 market categories. Length measurements are taken in the auction by species. The weight by size category by species is estimated.

2.5 Norway lobster

From 2002 onwards IMARES included the length sampling of Norway lobster from commercial landings in its sampling programme. Norway lobster are mainly caught by twin trawls (multi-rig otter trawls) in the North Sea and are sampled in the auction in Den Oever. Table 1 shows the market size categories together with the number of Norway lobster to be taken in 2005 by IMARES per size category for a length sample. Next to the 4 market categories for whole lobsters, there is an extra category for tails. Length measurements are collected in the auction or length samples are bought and processed at the laboratory. Of each size category the carapace length of 100 Norway lobsters should be measured. Of the tails the width of the 5th abdominal segment has to be measured. Both of whole Norway lobster, as well of the tails, information on sex, egg-carrying and ex-egg-carrying is collected

2.6 Red mullet

Red Mullet was added to the Dutch market sampling project in 2005. In general, red mullet are mainly caught by twin trawls. Red mullet is a delicate species and threatened with care to enhance the value. The landings are sorted into 4 categories in which two species of Red mullet are mixed sometimes; *Mullus surmuletus* and *Mullus barbatus*. Usually it is avoided to sample the mixed landings. Only length measurements are taken in the auction, therefore there is no age composition available.

2.7 Bass

Bass is included in the marketsampling project since 2005. Bass is mainly caught by relative small coastal vessels using gillnets and to a lesser extend other forms of passive gears. Officially, Bass is sorted into 4 market categories and are sampled for ages by these categories. The categories are often mixed, resulting in a mixed sample. The samples are aged by CEFAS colleagues in Lowestoft.

3 Data processing and data usage

All data collected in 2005 and in previous years are stored in a database. When the biological data are entered in the database they are checked for validity (is entered weight acceptable for length of the fish, is the age acceptable for the length of the fish, etc.). Before the meetings of the ICES assessment working groups the Dutch catches in tonnes by area of the relevant commercial species are converted to quarterly / monthly catches in numbers at age by area. The corresponding mean weights at age, the mean length at age, etc. are calculated.

The age and length samples will be used to construct age-length-keys (ALK's) by which a representative catch in tonnes can be converted into numbers by age group. Such ALK's can be constructed on a monthly, quarterly or yearly basis by (sub)area or areas combined and by market size category. The required level of stratification will be specified by the relevant ICES assessment Working Groups and differ by stock and also require desegregated information on the landing statistics by market size category of the sampling year. This information is not available at the time of production of this report and is therefore not included.

This report presents the actual biological sampling of the landings in 2005, but it does not include an evaluation of the sampling, as this is included in the "Technical Report of Activity 2005 – The Netherlands" (Anon., 2006).

4 Other data

4.1 Age samples from Dutch research vessel surveys

During Dutch Research Vessel Surveys biological samples are taken from catches of various species to collect information on age, length and maturity. During these surveys (International Bottom Trawl Surveys (IBTS-1 and IBTS-3), Herring Echo Survey (Echo), North Sea Mackerel Egg Survey (Egg), Demersal Fish Survey (DFS), Beam Trawl Survey (BTS) and Sole Net Survey (SNS) length distributions are collected. Age length-keys are used to convert these length distributions to numbers-at-age. In most cases these samples are stratified by rectangle or sampling area. In general a fixed number of otoliths are collected for each cm-group in each stratum.

Age samples collected from research vessel surveys are not used for the calculation of the catch in numbers at age based on the Dutch landings with the possible exception of cod and whiting. Since 2003, details of the biological sampling during research vessel surveys are no longer described in this report.

4.2 Discard samples taken on commercial vessels

In 2005 discard sampling was carried on board of beam trawlers and freezer trawlers in all quarters. The discard sampling in 2005 is reported in Van Keeken, 2006. Since 2003, details of the biological sampling discard surveys are no longer described in this report.

Literature

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Tables

Table 1: Market size categories as applied in Dutch auctions and the number of fish taken in 2005 by IMARES per size category for an age and length sample

Species	Market size category	From	To (not inclusive)	Nr of fish in one AGE sample	Nr of fish in one LENGTH sample
Sole	1	38 cm	and larger	10	-
Sole	2	33 cm	38 cm	10	-
Sole	3	30 cm	33 cm	10	-
Sole	4	27 cm	30 cm	10	-
Sole	5	24 cm	27 cm	10	-
Plaice	1	41 cm	and larger	15	-
Plaice	2	35 cm	41 cm	15	-
Plaice	3	31 cm	35 cm	15	-
Plaice	4	27 cm	31 cm	15	-
Turbot	1+	6 kg	and more	↓	-
Turbot	1	4 kg	6 kg	10	-
Turbot	2	3 kg	4 kg	10	-
Turbot	3	2 kg	3 kg	10	-
Turbot	4	1 kg	2 kg	10	-
Turbot	5	0,5 kg	1 kg	10	-
Turbot	6	25 cm	0,5 kg	↑	-
Brill	1+	2 kg	and more	↓	-
Brill	1	40 cm (1 kg)	and larger (2 kg)	15	-
Brill	2	30 cm (0,4 kg)	40cm (1 kg)	15	-
Brill	3	25 cm	30 cm (0,4 kg)	15	-
Lemon sole	1	37 cm	and larger	10	-
Lemon sole	2	31 cm	37 cm	10	-
Lemon sole	3	25 cm	31 cm	10	-
Dab	1	30 cm	and larger	25	25
Dab	2	23 cm	30 cm	↑	25
Whiting	1	40 cm	and larger	↓	↓
Whiting	2	36 cm	40 cm	↓	↓
Whiting	3	32 cm	36 cm	50 #	50 #
Whiting	4	27 cm	32 cm	↑	↑
Cod	1	88 cm	and larger	10	10
Cod	2	72 cm	88 cm	10	10
Cod	3	55 cm	72 cm	10	10
Cod	4	46 cm	55 cm	10	10
Cod	5 @	35 cm	46 cm	10	10
Norway lobster	1+	10 / kg	and less	-	↓
Norway lobster	1	11 / kg	20 / kg	-	100
Norway lobster	2	21 / kg	30 / kg	-	100
Norway lobster	3	31 / kg	40 / kg	-	100
Norway lobster	4	41 / kg	and more	-	100
Norway lobster	5	only tails		-	100
Ray (Raja spp)	1	5 kg	and more	-	30
Ray (Raja spp)	2	3 kg	5 kg	-	30
Ray (Raja spp)	3	1 kg	3 kg	-	30
Ray (Raja spp)	4	0,3 kg	1 kg	-	30

↓ Combined with the lower size category

↑ Combined with the higher size category

@ Size category 5 can be split in two categories 5 and 6

Whiting are usually sold unsorted

Table : 2a

IMARES, 15NOV2007 14:00:31

Species : Sole
Year : 2005, quarter : 1
Type : Commercial , age/length samples
Area type : ICES div

Table : 2b

IMARES, 15NOV2007 14:00:31

Species : Sole
 Year : 2005, quarter : 2
 Type : Commercial, age/length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect						Sample weight (kg)	Number measured	Number aged
						Cat 1	Cat 2	Cat 3	Cat 4	Cat 5			
IVB	111019	11/04/2005	UK197	Beam trawl	37F6	112	242	264	373	230		50	50
	111020	11/04/2005	UK246	Beam trawl	37F5	84	195	218	278	125		50	50
	111021	11/04/2005	UK194	Beam trawl	36F4	68	146	232	400	295		50	50
	111038	13/06/2005	UK246	Beam trawl	36F4	21	97	264	460	216		50	50
						285	680	978	1511	866		200	200
IVC	111016	08/04/2005	KW49	Beam trawl	34F3	138	600	843	721	318		50	50
	111017	08/04/2005	GO9	Beam trawl	33F3	90	444	700	535	261		50	50
	111018	08/04/2005	SL27	Beam trawl	32F2	76	461	685	607	524		50	50
	111022	15/04/2005	TX38	Beam trawl	34F3	71	336	443	715	796		50	50
	111023	15/04/2005	TX4	Beam trawl	34F3	73	438	545	777	795		50	50
	111024	13/05/2005	VD18	Beam trawl	33F4	11	75	113	98	203		50	50
	111025	13/05/2005	TX32	Beam trawl	33F4	71	384	545	552	586		50	50
	111026	13/05/2005	TX4	Beam trawl	34F4	71	359	467	882	895		50	50
	111027	20/05/2005	YE139	Beam trawl	33F3	45	107	171	165	193		50	50
	111028	23/05/2005	UK172	Beam trawl	33F3	41	229	459	496	379		50	50
	111029	23/05/2005	UK227	Beam trawl	33F3	57	290	839	513	494		50	50
	111030	23/05/2005	UK226	Beam trawl	34F4	52	253	569	622	489		50	50
	111031	23/05/2005	SK20	Beam trawl	35F6	33	64	140	196	224		50	50
	111032	27/05/2005	GO8	Beam trawl	33F3	54	294	511	611	457		50	50
	111033	27/05/2005	OD6	Beam trawl	33F3	53	143	577	736	386		50	50
	111034	10/06/2005	GO26	Beam trawl	34F3	59	206	444	492	270		50	50
	111035	10/06/2005	GO58	Beam trawl	32F4	10	109	144	128	126		50	50
	111037	13/06/2005	UK284	Beam trawl	35F6	55	194	319	628	579		50	50
	111039	17/06/2005	TX94	Beam trawl	35F3	89	223	233	247	230		50	50
	111040	17/06/2005	TX2	Beam trawl	35F2	51	193	284	463	326		50	50
VIIIE						1200	5402	9031	10184	8531		1000	1000
	111036	13/06/2005	Z60	Beam trawl	26E7	90	680	1740	3193	1847		50	50
						90	680	1740	3193	1847		50	50
						1575	6762	11749	14888	11244		1250	1250

Table : 2c

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 IMARES, 15NOV2007 14:00:31

Species : Sole
 Year : 2005, quarter : 3
 Type : Commercial , age/length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Sample weight					Number measured	Number aged	
						Cat 1	Cat 2	Cat 3	Cat 4	Cat 5			
IVB	111043	11/07/2005	UK67	Beam trawl	37F6	56	239	313	444	446	50	50	
	111046	15/08/2005	UK197	Beam trawl	38F7	69	276	483	453	354	50	50	
	111047	15/08/2005	UK382	Beam trawl	38F6	42	154	397	497	457	50	50	
	111049	19/08/2005	TX38	Beam trawl	36F0	7	51	128	452	756	50	50	
	111051	12/09/2005	UK156	Beam trawl	38F6	66	317	517	633	545	50	50	
	111052	12/09/2005	UK246	Beam trawl	38F5	80	262	269	240	191	50	50	
						320	1299	2107	2719	2749	300	300	
IVC	111041	08/07/2005	GO28	Beam trawl	35F2	38	295	540	712	360	50	50	
	111042	08/07/2005	TX2	Beam trawl	35F2	48	182	295	475	354	50	50	
	111044	11/07/2005	UK172	Beam trawl	35F3	27	138	309	420	519	50	50	
	111045	15/07/2005	GO37	Beam trawl	33F3	44	322	472	530	297	50	50	
	111048	19/08/2005	TX94	Beam trawl	35F3	15	202	285	414	428	50	50	
	111050	12/08/2005	GO48	Beam trawl	34F2	50	241	478	526	327	50	50	
	111053	16/09/2005	TX2	Beam trawl	35F2	47	323	372	455	297	50	50	
	111054	23/09/2005	GO5	Beam trawl	33F3	53	299	316	514	599	50	50	
	111060	16/09/2005	GO48	Beam trawl	34F2	40	165	337	561	416	50	50	
							362	2167	3404	4607	3597	450	450
						682	3466	5511	7326	6346	750	750	=====

Table : 2d

IMARES, 15NOV2007 14:00:31

Species : Sole
Year : 2005, quarter : 4
Type : Commercial , age/length samples
Area type : ICES div

Table : 3a

IMARES, 15NOV2007 14:00:31

Species : Plaice
Year : 2005, quarter : 1
Type : Commercial , age/length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect					Sample weight (kg)	Number measured	Number aged
						Cat 1	Cat 2	Cat 3	Cat 4			
IVB	101005	17/01/2005	UK52	Beam trawl	37F5	120	676	1841	2694		60	60
	101006	17/01/2005	N56	Beam trawl	37F5	433	1286	2205	2274		60	60
	101007	17/01/2005	UK217	Beam trawl	37F6	545	1683	3394	5518		60	60
	101008	21/01/2005	FR231	Twin trawl	38F4	868	1829	4675	8366		60	60
	101010	21/01/2005	HD80	Beam trawl	36F2	473	1019	1649	2163		60	60
	101011	07/02/2005	UK64	Beam trawl	36F4	438	1718	3587	4820		60	60
	101012	07/02/2005	UK208	Beam trawl	37F3	259	944	1701	1734		60	60
	101013	07/02/2005	UK47	Beam trawl	37F5	434	1791	3067	3334		60	60
	101014	07/02/2005	GX89	Beam trawl	38F4	401	1201	3665	5423		60	60
	101019	17/02/2005	LK215	Beam trawl	39F4	1089	2640	4490	5814		59	59
	101023	14/03/2005	UK52	Beam trawl	37F4	83	337	1028	1650		60	60
						5143	15124	31302	43790		659	659
IVC	101001	14/01/2005	G05	Beam trawl	33F3	534	2182	4346	4848		60	60
	101002	14/01/2005	G024	Beam trawl	34F3	174	1298	2892	3508		60	60
	101003	14/01/2005	SL7	Beam trawl	33F3	419	1290	2600	3247		60	60
	101004	17/01/2005	UK162	Beam trawl	35F3	482	2030	4093	4956		60	60
	101009	21/01/2005	TX21	Beam trawl	35F4	566	2007	3095	3230		60	60
	101015	11/02/2005	OD1	Beam trawl	35F3	322	1099	2055	4369		60	60
	101016	11/02/2005	G08	Beam trawl	34F4	92	486	1469	1501		60	60
	101017	18/02/2005	TX94	Beam trawl	34F3	103	407	1203	2283		60	60
	101018	18/02/2005	TX4	Beam trawl	34F3	183	666	1081	1354		60	60
	101020	11/03/2005	GO4	Beam trawl	33F2	82	308	676	2087		60	60
	101021	11/03/2005	GO14	Beam trawl	34F2	24	111	298	502		60	60
	101022	14/03/2005	SC31	Beam trawl	33F3	30	144	538	1322		60	60
	101024	14/03/2005	UK47	Beam trawl	35F2	143	537	1178	1481		60	60
	101025	19/03/2005	TX32	Beam trawl	34F3	87	335	726	1081		60	60
						3241	12900	26250	35769		840	840
						8384	28024	57552	79559		1499	1499
						=====	=====	=====	=====		=====	=====

Table : 3b

IMARES, 15NOV2007 14:00:31

Species : Plaice
 Year : 2005, quarter : 2
 Type : Commercial, age/length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect					Sample weight (kg)	Number measured	Number aged
						Cat 1	Cat 2	Cat 3	Cat 4			
IVB	101027	11/04/2005	UK197	Beam trawl	37F6	126	485	1159	1427		60	60
	101028	11/04/2005	UK246	Beam trawl	37F5	63	225	715	1082		60	60
	101031	18/04/2005	BRA7	Beam trawl	37F4	64	295	1228	2037		60	60
	101032	13/05/2005	Z243	Beam trawl	42F6	394	1864	2468	1862		60	60
	101034	13/05/2005	KW42	Beam trawl	37F1	314	1177	2633	3608		60	60
	101035	23/05/2005	SK20	Beam trawl	36F6	36	145	475	758		60	60
	101040	13/06/2005	UK284	Beam trawl	37F6	45	321	1055	1826		60	60
	101041	13/06/2005	UK246	Beam trawl	36F4	26	315	1399	2769		60	60
	101042	13/06/2005	BCK40	Beam trawl	40F3	359	1534	3208	1601		60	60
						-----	-----	-----	-----		-----	-----
						1427	6361	14340	16970		540	540
						-----	-----	-----	-----		-----	-----
IVC	101026	08/04/2005	SL42	Beam trawl	32F2	16	121	338	453		60	60
	101029	15/04/2005	TX29	Beam trawl	35F3	73	310	1275	2263		60	60
	101030	15/04/2005	TX38	Beam trawl	34F2	52	233	513	762		59	59
	101033	13/05/2005	TX32	Beam trawl	33F4	43	225	295	633		60	60
	101036	23/05/2005	UK226	Beam trawl	33F3	39	221	309	461		60	60
	101037	23/05/2005	UK227	Beam trawl	33F3	40	202	283	349		60	60
	101038	10/06/2005	GO26	Beam trawl	34F3	48	199	335	626		60	60
	101039	10/06/2005	GO9	Beam trawl	34F2	101	188	353	307		60	60
	101043	17/06/2005	TX2	Beam trawl	35F2	56	266	451	775		60	60
						-----	-----	-----	-----		-----	-----
						468	1965	4152	6629		539	539
						-----	-----	-----	-----		-----	-----
						1895	8326	18492	23599		1079	1079
						=====	=====	=====	=====		=====	=====

Table : 3c

IMARES, 15NOV2007 14:00:31

Species : Plaice
Year : 2005, quarter : 3
Type : Commercial , age/length samples
Area type : ICES div

area	sample	landing	vessel	gear	ices	Cat 1	Cat 2	Cat 3	Cat 4	Sample	Number	Number
	number	date			rect					weight (kg)		
IVB	101045	11/07/2005	SK20	Beam trawl	36F5	29	186	550	530		60	60
	101046	11/07/2005	UK284	Beam trawl	39F7	194	957	2272	3504		60	60
	101047	11/07/2005	UK67	Beam trawl	37F6	64	373	980	1763		60	60
	101050	15/08/2005	PD126	Beam trawl	39F3	586	2826	3035	2241		60	60
	101051	15/08/2005	UK382	Beam trawl	37F7	22	317	876	998		60	60
	101052	15/08/2005	UK197	Beam trawl	38F6	67	431	1133	1983		60	60
	101054	19/08/2005	BRA7	Beam trawl	37F4	111	685	439	492		60	60
	101055	19/08/2005	TX38	Beam trawl	36F0	60	285	482	1535		60	60
	101058	12/09/2005	UK156	Beam trawl	38F6	67	232	812	1362		60	60
	101059	12/09/2005	UK246	Beam trawl	38F5	227	962	1046	1017		60	60
IVC	101060	16/09/2005	TX2	Beam trawl	36F2	166	634	797	1617		60	60
						1593	7888	12422	17042		660	660
						-----	-----	-----	-----		-----	-----
						-----	-----	-----	-----		-----	-----
	101044	08/07/2005	TX2	Beam trawl	35F2	48	343	480	685		60	60
	101048	15/07/2005	G028	Beam trawl	33F3	48	146	238	614		59	59
	101049	15/07/2005	SL42	Beam trawl	32F2	17	133	207	523		60	60
	101053	19/08/2005	TX94	Beam trawl	35F3	63	175	475	1032		60	60
	101056	12/08/2005	G048	Beam trawl	34F2	76	308	478	863		59	59
	101057	09/09/2005	G05	Beam trawl	33F3	56	238	393	1149		60	60
						308	1343	2271	4866		358	358
						-----	-----	-----	-----		-----	-----
						1901	9231	14693	21908		1018	1018
						=====	=====	=====	=====		=====	=====

Table : 3d

IMARES, 15NOV2007 14:00:31

Species : Plaice
Year : 2005, quarter : 4
Type : Commercial , age/length samples
Area type : ICES div

Table : 4a

IMARES, 15NOV2007 14:00:31

Species : Turbot
Year : 2005, quarter : 1
Type : Commercial , age/length samples
Area type : ICES div

Table : 4b

IMARES, 15NOV2007 14:00:31

Species : Turbot
 Year : 2005, quarter : 2
 Type : Commercial, age/length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect						Sample weight (kg)	Number measured	Number aged
						Cat 1	Cat 2	Cat 3	Cat 4	Cat 5			
IVB	141007	11/04/2005	UK197	Beam trawl	37F6	19	39	112	168	168		54	54
	141011	23/05/2005	UK44	Beam trawl	39F7	43	61	92	169	241		60	60
	141012	23/05/2005	PD47	Beam trawl	39F7	0	99	87	112	232		50	50
	141014	13/06/2005	ST27	Beam trawl	39F7	62	49	56	86	187		60	60
						-----	-----	-----	-----	-----	-----	-----	-----
						124	248	347	535	828		224	224
						-----	-----	-----	-----	-----		-----	-----
						-----	-----	-----	-----	-----	-----	-----	-----
IVC	141006	08/04/2005	SL42	Beam trawl	32F2	19	6	11	39	105		41	41
	141008	15/04/2005	TX32	Beam trawl	35F3	24	27	55	73	153		53	53
	141009	22/04/2005	KW49	Beam trawl	33F2	21	14	18	50	53		46	46
	141010	13/05/2005	TX4	Beam trawl	33F4	4	3	20	24	103		41	41
	141013	27/05/2005	SL7	Beam trawl	32F3	17	6	6	25	94		38	38
	141015	24/06/2005	GO26	Beam trawl	32F3	59	49	52	49	156		60	60
						-----	-----	-----	-----	-----	-----	-----	-----
						144	105	162	260	664		279	279
						-----	-----	-----	-----	-----		-----	-----
						268	353	509	795	1492		503	503
						=====	=====	=====	=====	=====		=====	=====

Table : 4c

IMARES, 15NOV2007 14:00:31

Species : Turbot
Year : 2005, quarter : 3
Type : Commercial , age/length samples
Area type : ICES div

Table : 4d

IMARES, 15NOV2007 14:00:31

Species : Turbot
 Year : 2005, quarter : 4
 Type : Commercial, age/length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect						Sample weight (kg)	Number measured	Number aged
						Cat 1	Cat 2	Cat 3	Cat 4	Cat 5			
IVB	141021	14/11/2005	UK44	Beam trawl	39F6	37	42	54	207	159		59	59
	141023	18/11/2005	TX38		37F2	13	14	62	46	21		41	41
				Beam trawl		50	56	116	253	180		100	100
						-----	-----	-----	-----	-----		-----	-----
				Beam trawl	32F3	0	6	4	74	221		34	34
					33F3	10	6	10	95	145		38	38
IVC	141020	11/11/2005	OD8	Beam trawl	34F2	28	24	45	92	64		53	53
	141022	18/11/2005	GO26			38	36	59	261	430		125	125
	141024	19/12/2005	PD47	Beam trawl		-----	-----	-----	-----	-----		-----	-----
						88	92	175	514	610		225	225
				Beam trawl		=====	=====	=====	=====	=====		=====	=====
						=====	=====	=====	=====	=====		=====	=====

Table : 5a

IMARES, 15NOV2007 14:00:31

Species : Brill
 Year : 2005, quarter : 1
 Type : Commercial, age/length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect				Sample weight (kg)	Number measured	Number aged
						Cat 1	Cat 2	Cat 3			
IVB	131001	17/01/2005	UK64	Beam trawl	36F4	15	68	7		31	31
	131002	07/02/2005	UK47		37F5	57	81	7		33	33
						72	149	14		64	64
IVC	131003	18/02/2005	TX4	Beam trawl	34F3	28	39	7		30	30
	131004	11/03/2005	GO4		33F2	101	126	5		39	39
	131005	11/03/2005	SL3		35F2	25	32	1		25	25
						154	197	13		94	94
						226	346	27		158	158
						=====	=====	=====	=====	=====	=====

Table : 5b

IMARES, 15NOV2007 14:00:31

Species : Brill
 Year : 2005, quarter : 2
 Type : Commercial, age/length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect				Sample weight (kg)	Number measured	Number aged
						Cat 1	Cat 2	Cat 3			
IVB	131007	11/04/2005	UK197	Beam trawl	37F6	59	99	4		30	30
	131011	23/05/2005	UK44	Beam trawl	39F7	51	98	6		33	33
	131012	23/05/2005	PD47	Beam trawl	39F7	2	56	13		27	27
	131014	13/06/2005	ST27	Beam trawl	39F7	17	32	5		30	30
						-----	-----	-----	129	285	28
IVC	131006	08/04/2005	SL42	Beam trawl	32F2	19	35	1		30	30
	131008	15/04/2005	TX32	Beam trawl	35F3	29	54	16		30	30
	131009	22/04/2005	KW49	Beam trawl	33F2	54	82	1		30	30
	131010	13/05/2005	TX4	Beam trawl	33F4	33	84	13		30	30
	131013	27/05/2005	SL7	Beam trawl	32F3	2	15	2		30	30
	131015	24/06/2005	GO26	Beam trawl	32F3	15	27	5		30	30
						-----	-----	-----	152	297	38
										180	180
						-----	-----	-----	281	582	66
										300	300
						=====	=====	=====	=====	=====	=====

Table : 5d

IMARES, 15NOV2007 14:00:31

Species : Brill
 Year : 2005, quarter : 4
 Type : Commercial, age/length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect				Sample weight (kg)	Number measured	Number aged
						Cat 1	Cat 2	Cat 3			
IVB	131021	14/11/2005	UK44	Beam trawl	39F6	163	82	31		30	30
	131023	18/11/2005	TX38	Beam trawl	37F2	47	101	68		30	30
						210	183	99		60	60
IVC	131020	11/11/2005	OD8	Beam trawl	32F3	31	99	31		31	31
	131022	18/11/2005	GO26	Beam trawl	33F3	44	162	40		33	33
	131024	19/12/2005	PD47	Beam trawl	34F2	99	104	4		30	30
						174	365	75		94	94
						384	548	174		154	154
						=====	=====	=====	=====	=====	=====

Table : 6a

IMARES, 15NOV2007 14:00:31

Species : Dab
 Year : 2005, quarter : 1
 Type : Commercial, age samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Sample weight (kg)	Number aged
IVB	121002	21/01/2005	FR231	Twin trawl	38F4	840		25
					-----	-----	-----	-----
					840			25
					-----	-----	-----	-----
IVC	121001	17/01/2005	UK162	Beam trawl	34F3	596		25
	121003	11/02/2005	GO8	Beam trawl	34F4	758		25
					-----	-----	-----	-----
					1354			50
					-----	-----	-----	-----
					2194			75
					=====	=====	=====	=====

Table : 6b

IMARES, 15NOV2007 14:00:31

Species : Dab
 Year : 2005, quarter : 2
 Type : Commercial , age samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Sample weight (kg)	Number aged
IVB	121004	11/04/2005	UK194	Beam trawl	36F4	34		25
	121006	17/06/2005	SC41	Beam trawl	36F3	129		25
					-----	-----	-----	-----
					163			50
IVC	121005	27/05/2005	GO8	Beam trawl	33F3	439		25
					-----	-----	-----	-----
					439			25
					-----	-----	-----	-----
					602			75
					=====	=====	=====	=====

Table : 6c

IMARES, 15NOV2007 14:00:31

Species : Dab
 Year : 2005, quarter : 3
 Type : Commercial , age samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Sample weight (kg)	Number aged

IVB	121008	11/07/2005	SK20	Beam trawl	36F5	26		25
					-----	-----	-----	-----
					26			25
					-----	-----	-----	-----
IVC	121007	08/07/2005	NG7	Beam trawl	34F3	273		25
	121009	15/07/2005	GO59	Beam trawl	32F3	33		25
					-----	-----	-----	-----
					306		50	
					-----	-----	-----	-----
					332		75	
					=====	=====	=====	=====

Table : 6d

IMARES, 15NOV2007 14:00:31

Species : Dab
 Year : 2005, quarter : 4
 Type : Commercial , age samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Cat 1	Sample weight (kg)	Number aged
IVB	121010	10/10/2005	UK383	Beam trawl	38F6	730		25
					-----	-----	-----	-----
					730			25
					-----	-----	-----	-----
IVC	121011	21/10/2005	GO14	Beam trawl	34F3	116		25
	121012	18/11/2005	GO26	Beam trawl	33F3	234		25
					-----	-----	-----	-----
					350			50
					-----	-----	-----	-----
					1080			75
					=====	=====	=====	=====

Table : 6e

IMARES, 15NOV2007 14:00:31

Species : Dab
 Year : 2005, quarter : 1
 Type : Commercial, length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Sample weight (kg)		Number measured
						Cat 1		
IVB	120004	21/01/2005	FR231	Twin trawl	38F4	840		161
						-----	-----	-----
						840		161
						-----	-----	-----
IVC	120001	14/01/2005	ARM15	Beam trawl	32F2	2071		46
	120002	14/01/2005	VLI26	Beam trawl	31F2	1130		50
	120003	17/01/2005	UK162	Beam trawl	34F3	596		137
	120005	11/02/2005	ARM15	Beam trawl	31F2	1480		42
	120006	11/02/2005	ARM17	Beam trawl	32F2	1260		53
	120007	11/02/2005	GO8	Beam trawl	34F4	758		153
	120008	04/03/2005	GO26	Beam trawl	33F3	827		44
	120009	11/03/2005	GO9	Beam trawl	35F2	214		47
						-----	-----	-----
						8336		572
						-----	-----	-----
						9176		733
						=====	=====	=====

Table : 6f

IMARES, 15NOV2007 14:00:31

Species : Dab
 Year : 2005, quarter : 2
 Type : Commercial , length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices		Cat 1	Sample weight (kg)	Number measured
					rect	Cat 1			
<hr/>									
IVB	120010	11/04/2005	UK194	Beam trawl	36F4	34		263	
	120016	17/06/2005	SC41	Twin trawl	36F3	129		283	
					-----	-----	-----	-----	-----
						163		546	
<hr/>									
IVC	120011	15/04/2005	KW42	Beam trawl	34F2	352		43	
	120012	22/04/2005	GO22	Beam trawl	33F3	320		50	
	120013	27/05/2005	SL3	Beam trawl	35F2	126		40	
	120014	27/05/2005	GO8	Beam trawl	33F3	439		262	
	120015	10/06/2005	SL27	Beam trawl	33F3	320		58	
					-----	-----	-----	-----	-----
						1557		453	
					-----	-----	-----	-----	-----
						1720		999	
					=====	=====	=====	=====	=====

Table : 6g

IMARES, 15NOV2007 14:00:31

Species : Dab
 Year : 2005, quarter : 3
 Type : Commercial , length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Sample weight (kg)		Number measured					
						Cat 1							
IVB	120018	11/07/2005	SK20	Beam trawl	36F5	26		178					
						-----	-----	-----					
IVC	120017 120019 120020	08/07/2005 15/07/2005 19/08/2005	NG7 GO59 GO4	Otter trawl Beam trawl Beam trawl	34F3 32F3 35F2	273		235					
						33		229					
						132		33					
						-----	-----	-----					
						438		497					
						464		675					
						=====	=====	=====					

Table : 6h

IMARES, 15NOV2007 14:00:31

Species : Dab
 Year : 2005, quarter : 4
 Type : Commercial , length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect	Sample weight (kg)		Number measured
						Cat 1		
IVB	120021	10/10/2005	UK383	Beam trawl	38F6	730		170
					-----	-----	-----	-----
					730			170
					-----	-----	-----	-----
IVC	120022	21/10/2005	GO14	Beam trawl	34F3	116		221
	120023	18/11/2005	GO26	Beam trawl	33F3	234		236
	120024	09/12/2005	VLI27	Beam trawl	32F2	720		57
	120025	23/12/2005	UK170	Otter trawl	33F4	164		42
	120026	23/12/2005	UK170	Otter trawl	33F4	118		35
					-----	-----	-----	-----
					1352			591
					-----	-----	-----	-----
					2082			761
					=====	=====	=====	=====

Table : 7a

IMARES, 15NOV2007 14:00:31

Species : Lemon sole
 Year : 2005, quarter : 1
 Type : Commercial, age/length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect				Sample weight (kg)	Number measured	Number aged
						Cat 1	Cat 2	Cat 3			
IVC	161001	07/02/2005	UK104	Beam trawl	35F2		12	72		30	30
	161002	18/02/2005	GO38	Beam trawl	33F3		6	7		30	30
						-----	-----	-----	-----	-----	-----
							18	79		60	60
						-----	-----	-----	-----	-----	-----
							18	79		60	60
						=====	=====	=====	=====	=====	=====

Table : 7c

IMARES, 15NOV2007 14:00:31

Species : Lemon sole
 Year : 2005, quarter : 3
 Type : Commercial, age/length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect				Sample weight (kg)	Number measured	Number aged
						Cat 1	Cat 2	Cat 3			
IVB	161004	15/08/2005	PD126	Beam trawl	39F3		23	366		50	50
	161005	12/09/2005	UK59	Otter trawl	41F2	30	368	2519		75	75
						-----	-----	-----	-----	-----	-----
						30	391	2885		125	125
						-----	-----	-----	-----	-----	-----
						30	391	2885		125	125
						=====	=====	=====	=====	=====	=====

Table : 7d

IMARES, 15NOV2007 14:00:31

Species : Lemon sole
 Year : 2005, quarter : 4
 Type : Commercial, age/length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect				Sample weight (kg)	Number measured	Number aged
						Cat 1	Cat 2	Cat 3			
IVB	161006	10/10/2005	PW447	Twin trawl	37F3	3	133	1307		50	50
	161007	14/11/2005	PD126	Beam trawl	39F5		15	358		48	48
						3	148	1665		98	98
IVC	161008	19/12/2005	Z60	Beam trawl	33F2		36	359		50	50
							36	359		50	50
							3	184	2024	148	148
						=====	=====	=====	=====	=====	=====

Table : 8a

IMARES, 15NOV2007 14:00:31

Species : Cod
Year : 2005, quarter : 1
Type : Commercial , age samples
Area type : ICES div

Table : 8b

IMARES, 15NOV2007 14:00:31

Species : Cod
Year : 2005, quarter : 2
Type : Commercial , age samples
Area type : ICES div

Table : 8c

IMARES, 15NOV2007 14:00:31

Species : Cod
Year : 2005, quarter : 3
Type : Commercial , age samples
Area type : ICES div

Table : 8d

IMARES, 15NOV2007 14:00:31

Species : Cod
Year : 2005, quarter : 4
Type : Commercial , age samples
Area type : ICES div

Table : 8e

IMARES, 15NOV2007 14:00:31

Species : Cod
Year : 2005, quarter : 1
Type : Commercial , length samples
Area type : ICES div

Table : 8f

IMARES, 15NOV2007 14:00:31

Species : Cod
Year : 2005, quarter : 2
Type : Commercial , length samples
Area type : ICES div

Table : 8g

IMARES, 15NOV2007 14:00:31

Species : Cod
Year : 2005, quarter : 3
Type : Commercial , length samples
Area type : ICES div

Table : 8h

IMARES, 15NOV2007 14:00:31

Species : Cod
Year : 2005, quarter : 4
Type : Commercial , length samples
Area type : ICES div

Table : 9a

IMARES, 15NOV2007 14:00:31

Species : Whiting
 Year : 2005, quarter : 1
 Type : Commercial, age samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect					Sample weight (kg)	Number aged
						Cat 1	Cat 2	Cat 3	Cat 4		
IVC	211001	14/01/2005	G05	Beam trawl	33F3	196				50	
	211002	21/01/2005	G05	Beam trawl	34F2	192				50	
	211003	11/02/2005	G04	Beam trawl	33F2	45				50	
	211004	18/02/2005	G038	Beam trawl	33F3	45				50	
	211005	11/03/2005	G05	Beam trawl	33F3	31				50	
	211006	18/03/2005	OD1	Beam trawl	35F3	45				50	
						-----	-----	-----	-----	-----	
						554				300	
						-----	-----	-----	-----	-----	
						554				300	
						=====	=====	=====	=====	=====	

Table : 9b

IMARES, 15NOV2007 14:00:31

Species : Whiting
 Year : 2005, quarter : 2
 Type : Commercial , age samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect					Sample weight (kg)	Number aged
						Cat 1	Cat 2	Cat 3	Cat 4		
IVC	211007	15/04/2005	IJM8	Otter trawl	34F4	40	1050			50	
	211008	22/04/2005	GO5	Beam trawl	33F2	17				50	
	211009	20/05/2005	UK48	Otter trawl	33F2	95	337			50	
	211010	20/05/2005	NG5	Otter trawl	34F3	74	828			50	
	211011	10/06/2005	GO26	Beam trawl	34F3	47				50	
	211012	17/06/2005	GO41	Beam trawl	34F2	26				50	
						299	2215			300	
						299	2215			300	
						=====	=====	=====	=====	=====	=====

Table : 9c

IMARES, 15NOV2007 14:00:31

Species : Whiting
 Year : 2005, quarter : 3
 Type : Commercial, age samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect					Sample weight (kg)	Number aged
						Cat 1	Cat 2	Cat 3	Cat 4		
IVB	211014	15/07/2005	UK170	Otter trawl	37F3	745	364			50	
						-----	-----	-----	-----		
IVC	211013	08/07/2005	NG7	Otter trawl	34F3	40	1563			50	
						-----	-----	-----	-----		
IVC	211015	19/08/2005	YM8	Otter trawl	34F3	80	1216			50	
						-----	-----	-----	-----		
IVC	211016	26/08/2005	UK170	Otter trawl	33F4	28				50	
						-----	-----	-----	-----		
IVC						148	2779			150	
						-----	-----	-----	-----		
IVC						893	3143			200	
						=====	=====	=====	=====		

Table : 9d

IMARES, 15NOV2007 14:00:31

Species : Whiting
 Year : 2005, quarter : 4
 Type : Commercial , age samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect					Sample weight (kg)	Number aged
						Cat 1	Cat 2	Cat 3	Cat 4		
IVB	211017	07/10/2005	WR23	Twin trawl	37F2	87				50	
	211018	21/10/2005	KW137	Otter trawl	37F2	652	1597			50	
						739	1597			100	
IVC	211019	21/10/2005	GO26	Beam trawl	33F3	54				50	
	211020	21/10/2005	GO14	Beam trawl	34F3	32				50	
	211021	18/11/2005	GO26	Beam trawl	33F3	59				50	
	211022	25/11/2005	SC21	Beam trawl	33F3	23				50	
	211023	09/12/2005	GO48	Beam trawl	33F2	41				50	
	211024	16/12/2005	TX19	Beam trawl	35F3	118				50	
						327				300	
						1066	1597			400	
						=====	=====	=====	=====	=====	=====

Table : 9e

IMARES, 15NOV2007 14:00:31

Species : Whiting
 Year : 2005, quarter : 1
 Type : Commercial, length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect					Sample weight (kg)	Number measured
						Cat 1	Cat 2	Cat 3	Cat 4		
IVC	210001	14/01/2005	ARM15	Beam trawl	32F2		310	545		73	
	210002	14/01/2005	VLI26	Beam trawl	31F2		467	1090		75	
	210003	14/01/2005	GO5	Beam trawl	33F3	196				164	
	210004	21/01/2005	GO5	Beam trawl	34F2	192				225	
	210005	11/02/2005	ARM15	Beam trawl	31F2		400	280		64	
	210006	11/02/2005	ARM17	Beam trawl	32F2		120	90		85	
	210007	11/02/2005	GO4	Beam trawl	33F2	45				112	
	210008	18/02/2005	GO38	Beam trawl	33F3	45				177	
	210009	04/03/2005	GO26	Beam trawl	33F3	123				39	
	210010	11/03/2005	GO9	Beam trawl	35F2	63				50	
	210011	11/03/2005	GO5	Beam trawl	33F3	31				172	
	210012	18/03/2005	OD1	Beam trawl	35F3	45				159	
						740	1297	2005		1395	
						740	1297	2005		1395	
						=====	=====	=====	=====	=====	=====

Table : 9f

IMARES, 15NOV2007 14:00:31

Species : Whiting
 Year : 2005, quarter : 2
 Type : Commercial, length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect					Sample weight (kg)	Number measured
						Cat 1	Cat 2	Cat 3	Cat 4		
IVB	210022	10/06/2005	UK137	Otter trawl	36F4	717				48	
						-----	-----	-----	-----	-----	
						717				48	
IVC	210013	15/04/2005	YM8	Otter trawl	34F4	1050				274	
	210014	15/04/2005	YM8	Otter trawl	34F4	40				44	
	210015	22/04/2005	GO22	Beam trawl	33F3	35				54	
	210016	22/04/2005	GO5	Beam trawl	33F2	17				97	
	210017	20/05/2005	NG5	Otter trawl	34F3	828				233	
	210018	20/05/2005	NG5	Otter trawl	34F3	74				29	
	210019	20/05/2005	UK48	Otter trawl	33F2	337				218	
	210020	20/05/2005	UK48	Otter trawl	33F2	95				37	
	210021	27/05/2005	SL3	Beam trawl	35F2	15				75	
	210023	10/06/2005	GO26	Beam trawl	34F3	47				236	
	210024	17/06/2005	GO41	Beam trawl	34F2	26				139	
						-----	-----	-----	-----	-----	
						2564				1436	
						-----	-----	-----	-----	-----	
						3281				1484	
						=====	=====	=====	=====	=====	

Table : 9g

IMARES, 15NOV2007 14:00:31

Species : Whiting
 Year : 2005, quarter : 3
 Type : Commercial, length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect					Sample weight (kg)	Number measured
						Cat 1	Cat 2	Cat 3	Cat 4		
IVB	210027	15/07/2005	UK170	Otter trawl	37F3	745					230
	210028	15/07/2005	UK170	Otter trawl	37F3	364					42
						-----	-----	-----	-----	1109	272
IVC	210025	08/07/2005	NG7	Otter trawl	34F3	1563					180
	210026	08/07/2005	NG7	Otter trawl	34F3	40					37
	210029	19/08/2005	YM8	Otter trawl	34F3	1216					261
	210030	19/08/2005	YM8	Otter trawl	34F3	80					37
	210031	26/08/2005	UK170	Otter trawl	33F4	28					165
						-----	-----	-----	-----	2927	680
						-----	-----	-----	-----	4036	952
						=====	=====	=====	=====	=====	=====

Table : 9h

IMARES, 15NOV2007 14:00:31

Species : Whiting
 Year : 2005, quarter : 4
 Type : Commercial, length samples
 Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect					Sample weight (kg)	Number measured
						Cat 1	Cat 2	Cat 3	Cat 4		
IVB	210032	07/10/2005	WR23	Twin trawl	37F2	87					184
	210033	14/10/2005	KW137/173	Pair trawl	37F2	652					34
	210034	14/10/2005	KW137/173	Pair trawl	37F2	1597					42
						-----	-----	-----	-----		
						2336					260
IVC	210035	21/10/2005	G09	Beam trawl	35F2	40					53
	210036	21/10/2005	KW137	Otter trawl	33F4	396					160
	210037	21/10/2005	KW137	Otter trawl	33F4	1978					41
	210038	21/10/2005	G026	Beam trawl	33F3	54					129
	210039	21/10/2005	G014	Beam trawl	34F3	32					169
	210040	11/11/2005	OD8	Beam trawl	32F3	84					62
	210041	18/11/2005	G026	Beam trawl	33F3	59					202
	210042	25/11/2005	SC21	Beam trawl	33F3	23					137
	210043	09/12/2005	VLI27	Beam trawl	32F2		37	768			63
	210044	09/12/2005	G048	Beam trawl	33F2	41					229
	210045	16/12/2005	TX19	Beam trawl	35F3	118					121
						-----	-----	-----	-----		
						2825	37	768			1366
						-----	-----	-----	-----		
						5161	37	768			1626
						=====	=====	=====	=====	=====	=====

Table : 10a

IMARES, 15NOV2007 14:00:31

Species : Herring
 Year : 2005, quarter : 1
 Type : Commercial, age/length samples
 Area type : ICES subdiv

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
IVC	1	241005	22/01/2005	28/01/2005	SCH23	Pair trawl	31F1	25.1	213	25
								-----	-----	-----
								25.1	213	25
VIID	1	241001	13/01/2005	18/01/2005	SCH333	Pelagic trawl	29F0	22.9	211	25
		241002	07/01/2005	18/01/2005	SCH333	Pelagic trawl	28E9	25.3	156	25
		241003	05/01/2005	18/01/2005	SCH333	Pelagic trawl	28E9	23.5	187	25
		241004	05/01/2005	15/01/2005	SCH23	Pair trawl	28E9	26.4	217	25
	2	241006	02/02/2005	10/02/2005	SCH23	Pair trawl	29F0	23.2	228	25
		241007	02/02/2005	10/02/2005	SCH23	Pair trawl	29F0	24.6	252	25
		241008	08/02/2005	10/02/2005	SCH23	Pair trawl	29F0	22.3	256	25
		241009	08/02/2005	10/02/2005	SCH23	Pair trawl	29F0	22.8	261	25
		241010	17/02/2005	26/02/2005	SCH23	Pair trawl	29F0	25.4	299	25
		241011	25/02/2005	26/02/2005	SCH23	Pair trawl	29F1	27.0	306	25
								-----	-----	-----
								243.4	2373	250
								-----	-----	-----
								268.5	2586	275
								=====	=====	=====

Table : 10b

IMARES, 15NOV2007 14:00:31

Species : Herring
 Year : 2005, quarter : 2
 Type : Commercial, age/length samples
 Area type : ICES subdiv

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
IIA	6	241056	15/06/2005	30/06/2005	SCH333	Pelagic trawl	71F5	21.6	101	25
		241057	16/06/2005	30/06/2005	SCH333	Pelagic trawl	72F4	24.2	101	25
								45.8	202	50
IVAE	6	241028	04/06/2005	11/06/2005	PH110/220	Pair trawl	48F2	25.9	159	25
								25.9	159	25
IVAW	6	241019	08/06/2005	09/06/2005	SCH23	Pair trawl	44F1	24.7	188	25
		241020	21/05/2005	03/06/2005	SCH333	Pelagic trawl	46E8	25.2	214	25
		241021	22/05/2005	03/06/2005	SCH333	Pelagic trawl	50F1	22.7	144	25
		241022	27/05/2005	03/06/2005	SCH333	Pelagic trawl	50F1	24.8	152	25
		241023	28/05/2005	03/06/2005	SCH333	Pelagic trawl	48F0	24.6	184	25
		241024	30/05/2005	03/06/2005	SCH333	Pelagic trawl	50F0	23.9	148	25
		241026	02/06/2005	11/06/2005	PH110/220	Pair trawl	48F1	22.5	129	25
		241027	03/06/2005	11/06/2005	PH110/220	Pair trawl	49F1	24.2	147	25
		241029	06/06/2005	11/06/2005	PH110/220	Pair trawl	51E9	26.0	156	25
		241030	07/06/2005	11/06/2005	PH110/220	Pair trawl	48F1	26.9	153	25
		241031	09/06/2005	11/06/2005	PH110/220	Pair trawl	49F1	25.1	148	25
		241033	04/06/2005	25/06/2005	SCH72	Pelagic trawl	44E9	15.0	113	25
		241034	07/06/2005	25/06/2005	SCH72	Pelagic trawl	50F1	20.0	108	25
		241035	09/06/2005	25/06/2005	SCH72	Pelagic trawl	49F1	21.0	112	25
		241036	14/06/2005	25/06/2005	SCH72	Pelagic trawl	49F0	20.0	102	25
		241037	20/06/2005	25/06/2005	SCH72	Pelagic trawl	50F1	21.0	94	25
		241038	20/06/2005	25/06/2005	SCH72	Pelagic trawl	50F0	20.0	89	25
		241039	23/06/2005	25/06/2005	SCH72	Pelagic trawl	49F0	20.0	97	25
		241040	21/06/2005	25/06/2005	SCH72	Pelagic trawl	50E9	21.0	108	25
		241042	16/06/2005	24/06/2005	PH110/220	Pair trawl	49F1	25.2	129	25
		241043	17/06/2005	24/06/2005	PH110/220	Pair trawl	51F1	25.1	111	25
		241044	20/06/2005	24/06/2005	PH110/220	Pair trawl	51F0	25.0	105	25
		241045	21/06/2005	24/06/2005	PH110/220	Pair trawl	51F0	23.4	99	25
		241046	22/06/2005	24/06/2005	PH110/220	Pair trawl	50F0	24.7	99	25
		241049	18/06/2005	24/06/2005	SCH23	Pair trawl	51F0	24.7	108	25
		241050	18/06/2005	24/06/2005	SCH23	Pair trawl	51F0	24.5	93	25

		241051	21/06/2005	24/06/2005	SCH23	Pair trawl	51F1	24.6	102	25
		241052	21/06/2005	24/06/2005	SCH23	Pair trawl	51F0	24.4	107	25
		241055	11/06/2005	30/06/2005	SCH333	Pelagic trawl	44F1	22.8	196	25
		241058	25/06/2005	30/06/2005	SCH333	Pelagic trawl	50F0	24.2	93	25
		241059	25/06/2005	30/06/2005	SCH333	Pelagic trawl	51F0	25.3	96	25
		241060	26/06/2005	30/06/2005	SCH333	Pelagic trawl	48E9	25.5	121	25
								748.0	4045	800
								-----	-----	-----
IVB	5	241012	23/05/2005	28/05/2005	SCH23	Pair trawl	41F2	24.8	188	25
		241013	23/05/2005	28/05/2005	SCH23	Pair trawl	41F2	24.5	192	25
		241014	25/05/2005	28/05/2005	SCH23	Pair trawl	41F2	24.6	196	25
		241015	25/05/2005	28/05/2005	SCH23	Pair trawl	41F2	24.3	171	25
		241016	26/05/2005	28/05/2005	SCH23	Pair trawl	42F2	25.7	208	25
		241017	27/05/2005	28/05/2005	SCH23	Pair trawl	41F2	26.1	220	25
	6	241018	01/06/2005	09/06/2005	SCH23	Pair trawl	40F2	22.9	164	25
		241025	01/06/2005	03/06/2005	SCH333	Pelagic trawl	43E9	25.9	212	25
		241032	04/06/2005	09/06/2005	SCH23	Pair trawl	41F1	25.3	187	25
		241041	15/06/2005	24/06/2005	PH110/220	Pair trawl	43F1	25.7	208	25
		241047	14/06/2005	24/06/2005	SCH23	Pair trawl	43F1	25.1	201	25
		241048	17/06/2005	24/06/2005	SCH23	Pair trawl	43F2	24.8	205	25
		241053	09/06/2005	30/06/2005	SCH333	Pelagic trawl	42F0	24.8	252	25
		241054	10/06/2005	30/06/2005	SCH333	Pelagic trawl	43F1	24.3	208	25
								348.8	2812	350
								-----	-----	-----
								1168.5	7218	1225
								=====	=====	=====

Table : 10c

IMARES, 15NOV2007 14:00:31

Species : Herring
 Year : 2005, quarter : 3
 Type : Commercial, age/length samples
 Area type : ICES subdiv

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
<hr/>										
IIA	8	241102	29/07/2005	08/08/2005	SCH333	Pelagic trawl	62E7	23.4	90	25
		241104	04/08/2005	08/08/2005	SCH333	Pelagic trawl	72F4	22.7	77	25
		241105	04/08/2005	08/08/2005	SCH333	Pelagic trawl	73F3	22.5	82	25
		241106	07/08/2005	08/08/2005	SCH333	Pelagic trawl	73F2	22.3	76	25
		241107	08/08/2005	08/08/2005	SCH333	Pelagic trawl	74F3	22.2	66	25
		241108	11/08/2005	08/08/2005	SCH333	Pelagic trawl	73F6	21.4	80	25
	9	241116	14/08/2005	02/09/2005	SCH72	Pelagic trawl	72F8	23.0	120	25
		241117	15/08/2005	02/09/2005	SCH72	Pelagic trawl	73F8	24.0	97	25
		241118	15/08/2005	02/09/2005	SCH72	Pelagic trawl	73F7	22.5	97	25
		241119	16/08/2005	02/09/2005	SCH72	Pelagic trawl	73F7	20.0	96	25
		241120	18/08/2005	02/09/2005	SCH72	Pelagic trawl	71F7	20.0	85	25
		241121	19/08/2005	02/09/2005	SCH72	Pelagic trawl	73F6	22.0	83	25
		241122	23/08/2005	02/09/2005	SCH72	Pelagic trawl	72F4	24.0	72	25
		241123	23/08/2005	02/09/2005	SCH72	Pelagic trawl	72F4	24.0	69	25
		241124	23/08/2005	02/09/2005	SCH72	Pelagic trawl	72F4	23.0	67	25
		241125	24/08/2005	02/09/2005	SCH72	Pelagic trawl	73F4	24.0	65	25
		241126	26/08/2005	02/09/2005	SCH72	Pelagic trawl	74F6	20.0	63	25
								381.0	1385	425
<hr/>										
IVAW	7	241061	28/06/2005	07/07/2005	PH110/220	Pair trawl	45F1	23.3	165	25
		241062	28/06/2005	07/07/2005	PH110/220	Pair trawl	45F1	24.3	168	25
		241063	29/06/2005	07/07/2005	PH110/220	Pair trawl	51F1	22.9	94	25
		241064	30/06/2005	07/07/2005	PH110/220	Pair trawl	51F1	24.6	98	25
		241065	01/07/2005	07/07/2005	PH110/220	Pair trawl	49F0	21.6	96	25
		241066	04/07/2005	07/07/2005	PH110/220	Pair trawl	50E9	24.5	112	25
		241067	29/06/2005	09/07/2005	SCH23	Pair trawl	51F0	25.6	94	25
		241068	04/07/2005	09/07/2005	SCH23	Pair trawl	50E7	24.7	84	25
		241069	02/07/2005	09/07/2005	SCH23	Pair trawl	50F1	25.0	94	25
		241070	05/07/2005	09/07/2005	SCH23	Pair trawl	49F0	24.4	94	25
		241071	06/07/2005	09/07/2005	SCH23	Pair trawl	49F0	24.0	96	25
		241072	07/07/2005	09/07/2005	SCH23	Pair trawl	49F0	23.0	98	25
		241073	12/07/2005	22/07/2005	PH110/220	Pair trawl	44F0	26.7	159	25
		241074	13/07/2005	22/07/2005	PH110/220	Pair trawl	49E9	24.8	111	25
		241075	18/07/2005	22/07/2005	PH110/220	Pair trawl	50E9	26.7	98	25

	241076	19/07/2005	22/07/2005	PH110/220	Pair trawl	50E9	22.6	108	25
	241077	14/07/2005	22/07/2005	SCH23	Pair trawl	50F0	25.4	84	25
	241078	16/07/2005	22/07/2005	SCH23	Pair trawl	50F0	23.6	77	25
	241079	18/07/2005	22/07/2005	SCH23	Pair trawl	51E8	25.5	76	25
	241080	20/07/2005	22/07/2005	SCH23	Pair trawl	50E7	23.2	75	25
	241081	18/07/2005	22/07/2005	SCH23	Pair trawl	51E8	24.2	78	25
	241082	07/07/2005	22/07/2005	SCH333	Pelagic trawl	45F0	23.9	154	25
	241083	07/07/2005	22/07/2005	SCH333	Pelagic trawl	46F0	24.7	126	25
	241084	08/07/2005	22/07/2005	SCH333	Pelagic trawl	48F0	21.8	87	25
	241085	10/07/2005	22/07/2005	SCH333	Pelagic trawl	51E8	21.9	79	25
	241086	11/07/2005	22/07/2005	SCH333	Pelagic trawl	49F0	21.9	81	25
	241087	15/07/2005	22/07/2005	SCH333	Pelagic trawl	48E9	22.0	93	25
	241088	17/07/2005	22/07/2005	SCH333	Pelagic trawl	51E8	24.3	90	25
8	241089	27/07/2005	04/08/2005	PH110/220	Pair trawl	49E7	23.9	96	25
	241090	29/07/2005	04/08/2005	PH110/220	Pair trawl	49E8	24.6	100	25
	241091	02/08/2005	04/08/2005	PH110/220	Pair trawl	50E9	24.2	93	25
	241092	27/07/2005	05/08/2005	SCH23	Pair trawl	50E7	24.2	94	25
	241093	28/07/2005	05/08/2005	SCH23	Pair trawl	50E7	19.0	58	25
	241094	29/07/2005	05/08/2005	SCH23	Pair trawl	50E7	24.1	76	25
	241095	30/07/2005	05/08/2005	SCH23	Pair trawl	51E9	24.2	76	25
	241096	01/08/2005	05/08/2005	SCH23	Pair trawl	51E9	18.3	58	25
	241097	01/08/2005	05/08/2005	SCH23	Pair trawl	51F0	23.5	88	25
	241098	02/08/2005	05/08/2005	SCH23	Pair trawl	51F0	23.7	74	25
	241099	03/08/2005	05/08/2005	SCH23	Pair trawl	48E9	22.9	71	25
	241100	27/07/2005	08/08/2005	SCH333	Pelagic trawl	47E9	24.6	106	25
	241101	28/07/2005	08/08/2005	SCH333	Pelagic trawl	47E6	23.3	117	25
	241103	31/07/2005	08/08/2005	SCH333	Pelagic trawl	50E8	25.7	88	25
	241109	10/08/2005	19/08/2005	SCH23	Pair trawl	47E8	25.7	95	25
	241110	12/08/2005	19/08/2005	SCH23	Pair trawl	47E8	23.7	107	25
	241111	15/08/2005	19/08/2005	SCH23	Pair trawl	48E8	24.5	82	25
9	241113	06/08/2005	02/09/2005	SCH72	Pelagic trawl	49E7	23.0	92	25
	241114	07/08/2005	02/09/2005	SCH72	Pelagic trawl	49E7	21.0	71	25
	241115	11/08/2005	02/09/2005	SCH72	Pelagic trawl	48E8	20.0	81	25
						-----	-----	-----	-----
						1135.2	4592	1200	
						-----	-----	-----	-----
						25.7	110	25	
						-----	-----	-----	-----
						1541.9	6087	1650	
						=====	=====	=====	=====

8	241112	17/08/2005	19/08/2005	SCH23	Pair trawl	43E9	25.7	110	25
						-----	-----	-----	-----
						25.7	110	25	
						-----	-----	-----	-----

Table : 10d

IMARES, 15NOV2007 14:00:31

Species : Herring
 Year : 2005, quarter : 4
 Type : Commercial, age/length samples
 Area type : ICES subdiv

area	month	sample	catch	landing	vessel	gear	ices rect	Sample	Number measured	Number aged
		number	date	date				weight (kg)		
<hr/>										
IVC	10	241127	30/10/2005	30/10/2005	SCH23	Pair trawl	32F2	25.4	159	25
	11	241128	31/10/2005	05/11/2005	PH110/220	Pair trawl	32F2	24.6	159	25
		241129	03/11/2005	05/11/2005	PH110/220	Pair trawl	32F2	25.4	162	25
		241130	03/11/2005	08/11/2005	SCH333	Pelagic trawl	31F2	26.2	150	25
		241131	09/11/2005	11/11/2005	SCH23	Pair trawl	32F2	23.9	141	25
<hr/>								125.5	771	125
<hr/>										
VIID	12	241132	26/11/2005	03/12/2005	SCH72	Pelagic trawl	30F0	29.0	163	25
		241133	27/11/2005	03/12/2005	SCH72	Pelagic trawl	30F0	28.0	163	25
		241134	29/11/2005	03/12/2005	SCH72	Pelagic trawl	30F0	27.0	141	25
		241135	30/11/2005	03/12/2005	SCH72	Pelagic trawl	29F0	29.0	160	25
		241136	30/11/2005	03/12/2005	SCH72	Pelagic trawl	29F0	34.0	184	25
<hr/>								147.0	811	125
<hr/>								272.5	1582	250
<hr/>								=====	=====	=====

Table : 11a

IMARES, 15NOV2007 14:00:31

Species : Mackerel
 Year : 2005, quarter : 1
 Type : Commercial, age/length samples
 Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged	
<hr/>											
VIIIB	2	281009	27/01/2005	08/02/2005	SCH333	Pelagic trawl	36D8	21.1	108	25	
		281010	30/01/2005	08/02/2005	SCH333	Pelagic trawl	36D8	21.6	98	25	
		281011	30/01/2005	08/02/2005	SCH333	Pelagic trawl	36D8	19.3	58	25	
		281014	21/02/2005	26/02/2005	SCH23	Pair trawl	34D8	20.0	66	25	
	3	281017	19/02/2005	04/03/2005	SCH333	Pelagic trawl	35D8	21.8	56	25	
		281018	23/02/2005	04/03/2005	SCH333	Pelagic trawl	35D8	21.0	77	25	
		281019	26/02/2005	04/03/2005	SCH333	Pelagic trawl	34D8	21.5	53	25	
<hr/>								146.3	516	175	
<hr/>											
VIID	1	281001	15/01/2005	18/01/2005	SCH333	Pelagic trawl	30E9	21.8	78	25	
		281002	13/01/2005	18/01/2005	SCH333	Pelagic trawl	29F0	21.1	78	25	
		281003	05/01/2005	18/01/2005	SCH333	Pelagic trawl	28E9	21.7	68	25	
		281004	07/01/2005	18/01/2005	SCH333	Pelagic trawl	28E9	21.2	64	25	
		281005	25/01/2005	28/01/2005	SCH23	Pair trawl	30E9	23.6	71	25	
		281006	28/01/2005	28/01/2005	SCH23	Pair trawl	29E9	24.1	79	25	
	2	281013	05/02/2005	10/02/2005	SCH23	Pair trawl	29E9	18.7	54	25	
<hr/>								152.2	492	175	
<hr/>											
VIIH	3	281021	07/03/2005	14/03/2005	SCH23	Pair trawl	25E1	15.0	43	25	
								15.0	43	25	
VIIIB	3	281024	11/03/2005	25/03/2005	SCH333	Pelagic trawl	22E5	21.7	56	25	
		281025	14/03/2005	25/03/2005	SCH333	Pelagic trawl	24E2	22.9	89	25	
		281028	19/03/2005	26/03/2005	SCH23	Pair trawl	23E4	22.9	60	25	
		281029	24/03/2005	26/03/2005	SCH23	Pair trawl	21E5	24.2	60	25	
								91.7	265	100	
VIIJ	2	281007	24/01/2005	08/02/2005	SCH333	Pelagic trawl	29D9	21.7	82	25	
		281008	25/01/2005	08/02/2005	SCH333	Pelagic trawl	32D8	21.5	50	25	
		281012	05/02/2005	08/02/2005	SCH333	Pelagic trawl	29D9	21.7	78	25	
	3	281015	15/02/2005	04/03/2005	SCH333	Pelagic trawl	28D8	22.0	64	25	

281016	18/02/2005	04/03/2005	SCH333	Pelagic trawl	31D8	21.7	85	25
281020	27/02/2005	04/03/2005	SCH333	Pelagic trawl	31D8	22.1	105	25
281022	09/03/2005	14/03/2005	SCH23	Pair trawl	27D8	37.5	101	25
281023	09/03/2005	14/03/2005	SCH23	Pair trawl	27D8	12.5	36	25
281026	16/03/2005	25/03/2005	SCH333	Pelagic trawl	29D9	22.8	72	25
281027	18/03/2005	25/03/2005	SCH333	Pelagic trawl	28D9	20.8	72	25
						224.3	745	250
						629.5	2061	725
						=====	=====	=====

Table : 11b

IMARES, 15NOV2007 14:00:31

Species : Mackerel
 Year : 2005, quarter : 2
 Type : Commercial, age/length samples
 Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
IVA	6	281041	21/05/2005	03/06/2005	SCH333	Pelagic trawl	46E8	23.9	87	25
		281042	30/05/2005	03/06/2005	SCH333	Pelagic trawl	50F0	21.9	99	25
		281044	18/06/2005	24/06/2005	PH110/220	Pair trawl	51F0	22.1	72	25
		281045	20/06/2005	24/06/2005	SCH23	Pair trawl	51F0	23.2	81	25
								91.1	339	100
IVB	6	281043	15/06/2005	24/06/2005	PH110/220	Pair trawl	43F1	22.5	72	25
								22.5	72	25
VIID	5	281039	26/04/2005	08/05/2005	SCH23	Pair trawl	28E9	23.6	103	25
								23.6	103	25
VIIIB	4	281030	31/03/2005	08/04/2005	SCH23	Pair trawl	21E6	23.3	70	25
		281031	04/04/2005	08/04/2005	SCH23	Pair trawl	23E4	24.7	63	25
		281032	06/04/2005	08/04/2005	SCH23	Pair trawl	22E5	22.9	68	25
		281033	30/03/2005	11/04/2005	PH110/220	Pair trawl	21E5	21.6	58	25
		281035	18/04/2005	22/04/2005	SCH23	Pair trawl	22E6	23.7	172	25
		281036	18/04/2005	22/04/2005	SCH23	Pair trawl	22E5	23.2	163	25
	5	281040	19/05/2005	28/05/2005	PH110/220	Pair trawl	22E4	23.7	52	25
								163.1	646	175
VIIJ	4	281034	06/04/2005	11/04/2005	PH110/220	Pair trawl	25E0	21.1	46	25
	5	281037	24/04/2005	08/05/2005	SCH333	Pelagic trawl	27D8	21.6	53	25
		281038	05/05/2005	08/05/2005	SCH333	Pelagic trawl	27D8	23.7	62	25
								66.4	161	75
								366.7	1321	400
								=====	=====	=====

Table : 11c

IMARES, 15NOV2007 14:00:31

Species : Mackerel
 Year : 2005, quarter : 3
 Type : Commercial, age/length samples
 Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
IIA	8	281055	04/08/2005	08/08/2005	SCH333	Pelagic trawl	72F4	19.4	31	25
								19.4	31	25
IVA	7	281046	30/06/2005	07/07/2005	PH110/220	Pair trawl	51F1	22.8	86	25
		281047	13/07/2005	22/07/2005	PH110/220	Pair trawl	49E9	22.8	96	25
		281048	15/07/2005	22/07/2005	PH110/220	Pair trawl	49E9	22.8	96	25
		281049	16/07/2005	22/07/2005	SCH23	Pair trawl	50F0	22.9	90	25
		281050	08/07/2005	22/07/2005	SCH333	Pelagic trawl	48F0	20.3	70	25
		281051	17/07/2005	22/07/2005	SCH333	Pelagic trawl	51E8	24.7	96	25
	8	281052	27/07/2005	04/08/2005	PH110/220	Pair trawl	49E7	22.4	90	25
		281053	02/08/2005	04/08/2005	PH110/220	Pair trawl	50E9	19.8	75	25
		281054	27/07/2005	08/08/2005	SCH333	Pelagic trawl	47E9	22.3	74	25
		281056	12/08/2005	19/08/2005	SCH23	Pair trawl	47E8	22.5	74	25
								223.3	847	250
								242.7	878	275
								=====	=====	=====

Table : 11d

IMARES, 15NOV2007 14:00:31

Species : Mackerel
 Year : 2005, quarter : 4
 Type : Commercial, age/length samples
 Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
IVC	11	281065	05/11/2005	08/11/2005	SCH333	Pelagic trawl	32F2	17.8	64	25
								17.8	64	25
VIID	10	281057	16/09/2005	10/10/2005	SCH333	Pelagic trawl	30F0	18.9	96	25
		281059	24/09/2005	10/10/2005	SCH333	Pelagic trawl	29E9	22.8	123	25
		281061	06/10/2005	10/10/2005	SCH333	Pelagic trawl	29E9	23.3	111	25
		281062	27/10/2005	30/10/2005	SCH23	Pair trawl	29F0	23.4	69	25
	11	281063	01/10/2005	08/11/2005	SCH333	Pelagic trawl	29E9	23.2	107	25
		281064	28/10/2005	08/11/2005	SCH333	Pelagic trawl	30F0	21.3	103	25
		281066	07/11/2005	11/11/2005	SCH23	Pair trawl	29F0	22.8	70	25
								155.7	679	175
VIIIE	10	281058	20/09/2005	10/10/2005	SCH333	Pelagic trawl	29E6	19.9	104	25
		281060	30/09/2005	10/10/2005	SCH333	Pelagic trawl	29E6	24.3	198	25
								44.2	302	50
								217.7	1045	250
								=====	=====	=====

Table : 12a

IMARES, 15NOV2007 14:00:31

Species : Horse mackerel
 Year : 2005, quarter : 1
 Type : Commercial, age/length samples
 Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
<hr/>										
IVC	1	291003	13/01/2005	18/01/2005	SCH333	Pelagic trawl	31F0	20.6	98	25
		291004	10/01/2005	18/01/2005	SCH333	Pelagic trawl	31F1	21.2	147	25
		291005	17/01/2005	18/01/2005	SCH333	Pelagic trawl	31F1	19.6	86	25
		291006	17/01/2005	18/01/2005	SCH333	Pelagic trawl	31F1	19.0	85	25
<hr/>								80.4	416	100
VIIIB	2	291013	27/01/2005	08/02/2005	SCH333	Pelagic trawl	36D8	18.2	84	25
		291014	30/01/2005	08/02/2005	SCH333	Pelagic trawl	36D8	20.6	114	25
		291015	30/01/2005	08/02/2005	SCH333	Pelagic trawl	36D8	23.3	123	25
	3	291026	20/02/2005	04/03/2005	SCH333	Pelagic trawl	35D8	21.8	148	25
		291027	26/02/2005	04/03/2005	SCH333	Pelagic trawl	34D8	21.2	87	25
<hr/>								105.1	556	125
VIID	1	291001	09/01/2005	18/01/2005	SCH333	Pelagic trawl	30E9	19.4	98	25
		291002	15/01/2005	18/01/2005	SCH333	Pelagic trawl	30E9	20.2	102	25
		291007	24/01/2005	28/01/2005	SCH23	Pair trawl	30E9	20.3	112	25
		291008	25/01/2005	28/01/2005	SCH23	Pair trawl	30E9	21.3	108	25
		291009	26/01/2005	28/01/2005	SCH23	Pair trawl	30E9	22.3	104	25
		291010	28/01/2005	28/01/2005	SCH23	Pair trawl	29E9	22.5	73	25
	2	291018	05/02/2005	10/02/2005	SCH23	Pair trawl	29E9	21.2	102	25
		291019	07/02/2005	10/02/2005	SCH23	Pair trawl	29E9	21.4	108	25
		291020	17/02/2005	26/02/2005	SCH23	Pair trawl	28E9	19.0	98	25
		291021	17/02/2005	26/02/2005	SCH23	Pair trawl	28E9	18.0	71	25
<hr/>								205.6	976	250
VIIH	3	291029	07/03/2005	14/03/2005	SCH23	Pair trawl	25E1	8.0	87	25
								8.0	87	25
VIIIB	2	291022	19/02/2005	26/02/2005	SCH23	Pair trawl	24E2	20.7	257	25
	3	291031	12/03/2005	14/03/2005	SCH23	Pair trawl	22E5	13.5	143	25
		291032	11/03/2005	25/03/2005	SCH333	Pelagic trawl	22E5	19.4	197	25

		291033	11/03/2005	25/03/2005	SCH333	Pelagic trawl	24E2	22.5	197	25
		291037	19/03/2005	26/03/2005	SCH23	Pair trawl	22E5	20.5	216	25
		291038	24/03/2005	26/03/2005	SCH23	Pair trawl	21E5	20.2	207	25
								116.8	1217	150
								-----	-----	-----
VIIJ	2	291011	24/01/2005	08/02/2005	SCH333	Pelagic trawl	29D9	21.9	183	25
		291012	25/01/2005	08/02/2005	SCH333	Pelagic trawl	32D8	21.8	114	25
		291016	01/02/2005	08/02/2005	SCH333	Pelagic trawl	31D8	20.4	102	25
		291017	05/02/2005	08/02/2005	SCH333	Pelagic trawl	29D9	20.4	192	25
		291023	22/02/2005	26/02/2005	SCH23	Pair trawl	33D8	19.4	236	25
	3	291024	17/02/2005	04/03/2005	SCH333	Pelagic trawl	28D9	21.0	216	25
		291025	18/02/2005	04/03/2005	SCH333	Pelagic trawl	31D8	19.9	129	25
		291028	27/02/2005	04/03/2005	SCH333	Pelagic trawl	31D8	20.8	130	25
		291030	08/03/2005	14/03/2005	SCH23	Pair trawl	27D9	29.5	170	25
		291034	16/03/2005	25/03/2005	SCH333	Pelagic trawl	29D9	21.1	156	25
		291035	18/03/2005	25/03/2005	SCH333	Pelagic trawl	28D9	20.5	135	25
		291036	20/03/2005	25/03/2005	SCH333	Pelagic trawl	28D9	21.4	145	25
								258.1	1908	300
								-----	-----	-----
								774.0	5160	950
								=====	=====	=====

Table : 12b

IMARES, 15NOV2007 14:00:31

Species : Horse mackerel
 Year : 2005, quarter : 2
 Type : Commercial, age/length samples
 Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
<hr/>										
VIIIB	4	291039	01/04/2005	08/04/2005	SCH23	Pair trawl	21E6	22.4	280	25
		291040	04/04/2005	08/04/2005	SCH23	Pair trawl	22E5	22.0	286	25
		291041	05/04/2005	08/04/2005	SCH23	Pair trawl	22E5	22.3	297	25
		291044	16/04/2005	22/04/2005	SCH23	Pair trawl	22E6	22.6	495	25
		291045	18/04/2005	22/04/2005	SCH23	Pair trawl	22E5	20.6	243	25
		291046	19/04/2005	22/04/2005	SCH23	Pair trawl	22E5	23.1	291	25
	5	291050	20/05/2005	28/05/2005	PH110/220	Pair trawl	21E5	21.8	126	25
		291051	23/05/2005	28/05/2005	PH110/220	Pair trawl	20E6	19.1	129	25
<hr/>								173.9	2147	200
<hr/>										
VIIJ	4	291042	02/04/2005	11/04/2005	PH110/220	Pair trawl	25E0	21.1	238	25
		291043	06/04/2005	11/04/2005	PH110/220	Pair trawl	25E0	21.6	213	25
		291047	24/04/2005	08/05/2005	SCH333	Pelagic trawl	27D8	21.6	117	25
		291048	05/05/2005	08/05/2005	SCH333	Pelagic trawl	27D8	21.6	117	25
	5	291049	30/04/2005	08/05/2005	SCH23	Pair trawl	27D8	22.6	117	25
<hr/>								108.5	802	125
<hr/>								282.4	2949	325
<hr/>								=====	=====	=====

Table : 12c

IMARES, 15NOV2007 14:00:31

Species : Horse mackerel
 Year : 2005, quarter : 3
 Type : Commercial, age/length samples
 Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
IVA	7	291052	18/07/2005	22/07/2005	SCH23	Pair trawl	51E8	20.8	60	25
								20.8	60	25
VIIB	9	291053	04/08/2005	02/09/2005	SCH72	Pelagic trawl	37D9	5.3	25	25
								5.3	25	25
								26.1	85	50
								=====	=====	=====

Table : 12d

IMARES, 15NOV2007 14:00:31

Species : Horse mackerel
 Year : 2005, quarter : 4
 Type : Commercial, age/length samples
 Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
VIA	12	291096	09/11/2005	03/12/2005	SCH72	Pelagic trawl	39E0	14.0	84	25
		291097	10/11/2005	03/12/2005	SCH72	Pelagic trawl	38E0	15.5	81	25
								29.5	165	50
VIID	10	291058	21/09/2005	10/10/2005	SCH333	Pelagic trawl	29E8	21.6	220	25
		291059	22/09/2005	10/10/2005	SCH333	Pelagic trawl	29E9	22.5	192	25
		291060	24/09/2005	10/10/2005	SCH333	Pelagic trawl	29E9	22.2	205	25
		291061	25/09/2005	10/10/2005	SCH333	Pelagic trawl	28E9	23.8	218	25
		291067	06/10/2005	10/10/2005	SCH333	Pelagic trawl	29E9	22.4	196	25
		291068	18/10/2005	30/10/2005	SCH23	Pair trawl	29E9	23.1	217	25
		291069	21/10/2005	30/10/2005	SCH23	Pair trawl	29F0	22.3	213	25
		291070	25/10/2005	30/10/2005	SCH23	Pair trawl	29F0	22.5	140	25
	11	291075	02/11/2005	05/11/2005	PH110/220	Pair trawl	29F0	22.8	180	25
		291076	02/11/2005	05/11/2005	PH110/220	Pair trawl	29F0	23.1	157	25
		291077	02/11/2005	05/11/2005	PH110/220	Pair trawl	29F0	22.6	188	25
		291078	02/11/2005	05/11/2005	PH110/220	Pair trawl	29F0	22.1	152	25
		291079	17/10/2005	08/11/2005	SCH333	Pelagic trawl	29E9	20.5	148	25
		291080	21/10/2005	08/11/2005	SCH333	Pelagic trawl	29E8	20.5	122	25
		291081	22/10/2005	08/11/2005	SCH333	Pelagic trawl	29E9	23.3	180	25
		291084	28/10/2005	08/11/2005	SCH333	Pelagic trawl	30F0	19.2	179	25
		291085	01/11/2005	08/11/2005	SCH333	Pelagic trawl	29F0	20.2	160	25
		291086	06/11/2005	08/11/2005	SCH333	Pelagic trawl	30F0	22.1	200	25
		291087	06/11/2005	08/11/2005	SCH333	Pelagic trawl	29F0	19.2	205	25
		291088	05/11/2005	11/11/2005	SCH23	Pair trawl	29F0	22.5	129	25
		291089	12/11/2005	18/11/2005	PH110/220	Pair trawl	30F0	20.5	141	25
		291090	14/11/2005	18/11/2005	PH110/220	Pair trawl	30E9	22.4	222	25
								481.4	3964	550
VIIE	10	291054	17/09/2005	10/10/2005	SCH333	Pelagic trawl	28E7	23.0	216	25
		291055	18/09/2005	10/10/2005	SCH333	Pelagic trawl	28E7	19.2	184	25
		291056	19/09/2005	10/10/2005	SCH333	Pelagic trawl	28E7	21.1	232	25
		291057	20/09/2005	10/10/2005	SCH333	Pelagic trawl	29E6	21.2	211	25
		291062	27/09/2005	10/10/2005	SCH333	Pelagic trawl	29E7	20.4	204	25

		291063	30/09/2005	10/10/2005	SCH333	Pelagic trawl	29E6	22.1	241	25
		291064	02/10/2005	10/10/2005	SCH333	Pelagic trawl	27E6	21.5	239	25
		291065	04/10/2005	10/10/2005	SCH333	Pelagic trawl	27E6	20.2	198	25
		291066	04/10/2005	10/10/2005	SCH333	Pelagic trawl	28E6	21.4	200	25
		291071	14/10/2005	20/10/2005	PH110/220	Pair trawl	27E6	23.1	216	25
		291072	20/10/2005	20/10/2005	PH110/220	Pair trawl	28E4	23.0	220	25
11		291073	28/10/2005	05/11/2005	PH110/220	Pair trawl	29E6	22.3	184	25
		291074	29/10/2005	05/11/2005	PH110/220	Pair trawl	29E6	21.6	185	25
		291082	25/10/2005	08/11/2005	SCH333	Pelagic trawl	29E7	20.9	215	25
		291083	26/10/2005	08/11/2005	SCH333	Pelagic trawl	28E7	21.6	192	25
		291091	14/11/2005	18/11/2005	PH110/220	Pair trawl	29E7	20.9	86	25
		291092	15/11/2005	18/11/2005	PH110/220	Pair trawl	29E7	21.6	85	25
	12	291093	15/11/2005	18/11/2005	PH110/220	Pair trawl	29E7	22.6	111	25
		291105	17/11/2006	05/12/2006	SCH123	Pelagic trawl	28E7		25	25
								387.7	3444	475
VIIH	11	291094	17/11/2005	25/11/2005	SCH333	Pelagic trawl	25E3	20.7	201	25
	12	291098	16/11/2005	03/12/2005	SCH72	Pelagic trawl	25E3	6.0	60	25
		291101	22/11/2005	03/12/2005	SCH72	Pelagic trawl	25E3	6.5	64	25
		291102	22/11/2005	03/12/2005	SCH72	Pelagic trawl	25E3	16.0	108	25
		291103	23/11/2005	03/12/2005	SCH72	Pelagic trawl	25E3	8.5	78	25
		291104	25/11/2005	03/12/2005	SCH72	Pelagic trawl	25E2	8.0	66	25
		291106	21/11/2006	05/12/2006	SCH123	Pelagic trawl	25E3		25	25
								65.7	602	175
VIIIB	11	291095	21/11/2005	25/11/2005	SCH333	Pelagic trawl	24E4	21.8	207	25
	12	291099	19/11/2005	03/12/2005	SCH72	Pelagic trawl	24E3	6.5	60	25
		291100	19/11/2005	03/12/2005	SCH72	Pelagic trawl	24E3	7.0	76	25
		291107	29/11/2006	05/12/2006	SCH123	Pelagic trawl	24E4		25	25
								35.3	368	100
								999.6	8543	1350
								=====	=====	=====

Table : 13a

IMARES, 15NOV2007 14:00:31

Species : Blue whiting
 Year : 2005, quarter : 1
 Type : Commercial, age/length samples
 Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
<hr/>										
VIA	3	301036	18/03/2005	31/03/2005	KW172	Pelagic trawl	42E0	24.1	218	25
		301037	19/03/2005	31/03/2005	KW172	Pelagic trawl	42E0	20.6	177	25
		301038	20/03/2005	31/03/2005	KW172	Pelagic trawl	43E0	22.8	218	25
		301039	21/03/2005	31/03/2005	KW172	Pelagic trawl	45E0	23.4	238	25
		301040	21/03/2005	31/03/2005	KW172	Pelagic trawl	45E0	23.3	221	25
		301041	23/03/2005	31/03/2005	KW172	Pelagic trawl	46D9	23.1	219	25
		301042	24/03/2005	31/03/2005	KW172	Pelagic trawl	46D9	23.6	249	25
		301043	25/03/2005	31/03/2005	KW172	Pelagic trawl	46D9	25.8	222	25
		301044	26/03/2005	31/03/2005	KW172	Pelagic trawl	46D9	22.5	225	25
		301045	27/03/2005	31/03/2005	KW172	Pelagic trawl	47D9	24.4	197	25
		301046	28/03/2005	31/03/2005	KW172	Pelagic trawl	47D8	23.0	230	25
								256.6	2414	275
<hr/>										
VIIC	3	301002	19/02/2005	02/03/2005	KW172	Pelagic trawl	35D1	4.8	25	25
		301003	19/02/2005	02/03/2005	KW172	Pelagic trawl	35D1	3.6	25	25
		301004	19/02/2005	02/03/2005	KW172	Pelagic trawl	35D1	3.1	25	25
		301005	20/02/2005	02/03/2005	KW172	Pelagic trawl	35D1	3.4	25	25
		301006	20/02/2005	02/03/2005	KW172	Pelagic trawl	35D1	3.3	25	25
		301007	20/02/2005	02/03/2005	KW172	Pelagic trawl	35D1	4.0	25	25
		301008	20/02/2005	02/03/2005	KW172	Pelagic trawl	35D1	3.3	25	25
		301009	21/02/2005	02/03/2005	KW172	Pelagic trawl	36D1	2.7	25	25
		301010	21/02/2005	02/03/2005	KW172	Pelagic trawl	36D1	3.2	25	25
		301011	21/02/2005	02/03/2005	KW172	Pelagic trawl	35D1	3.6	25	25
		301012	22/02/2005	02/03/2005	KW172	Pelagic trawl	35D1	3.9	25	25
		301013	22/02/2005	02/03/2005	KW172	Pelagic trawl	35D1	2.5	25	25
		301014	23/02/2005	02/03/2005	KW172	Pelagic trawl	35D1	3.0	25	25
		301015	23/02/2005	02/03/2005	KW172	Pelagic trawl	35D1	9.2	83	25
		301016	23/02/2005	02/03/2005	KW172	Pelagic trawl	36D1	3.1	25	25
		301017	24/02/2005	02/03/2005	KW172	Pelagic trawl	35D1	2.7	25	25
		301018	25/02/2005	02/03/2005	KW172	Pelagic trawl	35D1	2.8	25	25
		301019	25/02/2005	02/03/2005	KW172	Pelagic trawl	35D0	2.9	25	25
		301020	25/02/2005	02/03/2005	KW172	Pelagic trawl	35D1	3.4	25	25
		301021	26/02/2005	02/03/2005	KW172	Pelagic trawl	35D0	3.9	25	25
		301022	26/02/2005	02/03/2005	KW172	Pelagic trawl	35D1	4.1	25	25

					Pelagic trawl	35D0	2.6	25	25	
					Pelagic trawl	35D1	3.7	25	25	
					Pelagic trawl	37D6	3.2	25	25	
					Pelagic trawl	37D5	3.1	25	25	
					Pelagic trawl	36D6	3.7	25	25	
					Pelagic trawl	36D6	3.0	25	25	
					Pelagic trawl	36D6	2.7	25	25	
					Pelagic trawl	36D5	7.1	69	25	
					Pelagic trawl	36D6	23.9	223	25	
					Pelagic trawl	36D5	24.0	269	25	
					Pelagic trawl	36D4	24.9	235	25	
					Pelagic trawl	36D4	2.3	25	25	
						-----	-----	-----	-----	
						180.7	1579	825		
						-----	-----	-----	-----	
VIIK	3	301001	17/02/2005	02/03/2005	KW172	Pelagic trawl	31D7	2.4	25	25
		301031	25/02/2005	09/03/2005	SCH72	Pelagic trawl	33D4	24.7	230	25
						-----	-----	-----	-----	
						27.1	255	50		
						-----	-----	-----	-----	
						464.4	4248	1150		
						=====	=====	=====	=====	

Table : 13b

IMARES, 15NOV2007 14:00:31

Species : Blue whiting
 Year : 2005, quarter : 2
 Type : Commercial, age/length samples
 Area type : ICES div

area	month	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
VIA	4	301047	19/03/2005	06/04/2005	SCH72	Pelagic trawl	42E0	25.8	248	25
		301048	21/03/2005	06/04/2005	SCH72	Pelagic trawl	44D9	24.7	248	25
		301049	22/03/2005	06/04/2005	SCH72	Pelagic trawl	44D9	25.7	253	25
		301050	23/03/2005	06/04/2005	SCH72	Pelagic trawl	44D8	24.0	245	25
		301051	24/03/2005	06/04/2005	SCH72	Pelagic trawl	44D8	25.1	261	25
		301052	25/03/2005	06/04/2005	SCH72	Pelagic trawl	44D8	25.3	264	25
		301053	26/03/2005	06/04/2005	SCH72	Pelagic trawl	44D8	24.4	252	25
		301054	27/03/2005	06/04/2005	SCH72	Pelagic trawl	44D8	25.0	281	25
		301055	28/03/2005	06/04/2005	SCH72	Pelagic trawl	44D8	28.3	289	25
		301056	29/03/2005	06/04/2005	SCH72	Pelagic trawl	44D7	25.7	269	25
		301057	30/03/2005	06/04/2005	SCH72	Pelagic trawl	44D7	24.8	280	25
		301058	31/03/2005	06/04/2005	SCH72	Pelagic trawl	44D7	25.2	296	25
		301059	01/04/2005	06/04/2005	SCH72	Pelagic trawl	44D8	25.4	273	25
		301060	02/04/2005	06/04/2005	SCH72	Pelagic trawl	44D8	25.0	291	25
		301061	03/04/2005	06/04/2005	SCH72	Pelagic trawl	44D8	25.0	258	25
		301062	02/04/2005	17/04/2005	SCH333	Pelagic trawl	46D8	24.2	235	25
		301063	04/04/2005	17/04/2005	SCH333	Pelagic trawl	47D8	20.5	195	25
		301064	05/04/2005	17/04/2005	SCH333	Pelagic trawl	47D8	22.9	219	25
		301065	06/04/2005	17/04/2005	SCH333	Pelagic trawl	47D8	20.7	195	25
		301066	08/04/2005	17/04/2005	SCH333	Pelagic trawl	47D9	24.1	265	25
		301067	09/04/2005	17/04/2005	SCH333	Pelagic trawl	48D9	22.0	226	25
		301068	09/04/2005	17/04/2005	SCH333	Pelagic trawl	48D9	23.6	268	25
		301069	11/04/2005	17/04/2005	SCH333	Pelagic trawl	47E2	24.0	193	25
								561.4	5804	575
								561.4	5804	575
								=====	=====	=====

Table : 14b

IMARES, 15NOV2007 14:00:31

Species : Greater argentine
 Year : 2005, quarter : 2
 Type : Commercial , age/length samples
 Area type : ICES div

area	sample number	catch date	landing date	vessel	gear	ices rect	Sample weight (kg)	Number measured	Number aged
VIA	271001	11/04/2005	17/04/2005	SCH333	Pelagic trawl	47E2		25	25
	271002	18/04/2005	07/05/2005	SCH171	Pelagic trawl	47E2	21.6	25	25
	271003	18/04/2005	07/05/2005	SCH171	Pelagic trawl	47E2	23.4	25	25
	271004	21/04/2005	07/05/2005	SCH171	Pelagic trawl	47E3	20.4	25	25
	271005	22/04/2005	07/05/2005	SCH171	Pelagic trawl	46E1	23.1	25	25
	271006	22/04/2005	07/05/2005	SCH171	Pelagic trawl	45E0	22.5	25	25
	271007	23/04/2005	07/05/2005	SCH171	Pelagic trawl	46E1	23.7	25	25
	271008	23/04/2005	07/05/2005	SCH171	Pelagic trawl	46E2	20.5	25	25
	271009	24/04/2005	07/05/2005	SCH171	Pelagic trawl	47E3	22.6	25	25
	271010	24/04/2005	07/05/2005	SCH171	Pelagic trawl	47E3	21.5	25	25
	271011	25/04/2005	07/05/2005	SCH171	Pelagic trawl	48E3	24.3	25	25
	271012	26/04/2005	07/05/2005	SCH171	Pelagic trawl	46E2	20.1	25	25
	271013	26/04/2005	07/05/2005	SCH171	Pelagic trawl	47E2	24.9	25	25
	271014	28/04/2005	07/05/2005	SCH171	Pelagic trawl	47E2	23.1	25	25
	271015	29/04/2005	07/05/2005	SCH171	Pelagic trawl	45E0	21.7	25	25
							-----	-----	-----
							313.2	375	375
							-----	-----	-----
							313.2	375	375
							=====	=====	=====

Table : 15a

IMARES, 15NOV2007 14:00:31

Species : Nephrops
Year : 2005, quarter : 1
Type : Commercial , age/length samples
Area type : ICES div
Comment : Category 5 are Nephrops tails

Table : 15b

IMARES, 15NOV2007 14:00:31

Species : Nephrops
Year : 2005, quarter : 2
Type : Commercial , age/length samples
Area type : ICES div
Comment : Category 5 are Nephrops tails

Table : 15c

IMARES, 15NOV2007 14:00:31

Species : Nephrops
Year : 2005, quarter : 3
Type : Commercial , age/length samples
Area type : ICES div
Comment : Category 5 are Nephrops tails

Table : 15d

IMARES, 15NOV2007 14:00:31

Species : Nephrops
Year : 2005, quarter : 4
Type : Commercial , age/length samples
Area type : ICES div
Comment : Category 5 are Nephrops tails

Table : 16a

IMARES, 15NOV2007 14:00:31

Species : Ray blond
Year : 2005, quarter : 1
Type : Commercial , age/length samples
Area type : ICES div

Table : 16b

IMARES, 15NOV2007 14:00:31

Species : Ray blond
Year : 2005, quarter : 2
Type : Commercial , age/length samples
Area type : ICES div

Table : 16c

IMARES, 15NOV2007 14:00:31

Species : Ray blond
Year : 2005, quarter : 3
Type : Commercial , age/length samples
Area type : ICES div

Table : 16d

IMARES, 15NOV2007 14:00:31

Species : Ray blond
Year : 2005, quarter : 4
Type : Commercial , age/length samples
Area type : ICES div

Table : 17a

IMARES, 15NOV2007 14:00:31

Species : Ray spotted
Year : 2005, quarter : 1
Type : Commercial , age/length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect					Sample weight (kg)	Number measured	Number aged
						Cat 1	Cat 2	Cat 3	Cat 4			
IVB	331006	24/01/2005	KW45	Beam trawl	37F1	0	57	77	11		43	
	331007	24/01/2005	KW145	Beam trawl	37F0	0	0	139	12		27	
						0	57	216	23		70	
						-----	-----	-----	-----		-----	
						-----	-----	-----	-----		-----	
						-----	-----	-----	-----		-----	
IVC	331001	14/01/2005	ARM14	Beam trawl	31F2	0	0	19	15		9	
	331002	14/01/2005	ARM15	Beam trawl	32F2	0	0	48	20		9	
	331003	14/01/2005	VLI26	Beam trawl	31F2	0	0	19	20		12	
	331004	14/01/2005	VLI28	Beam trawl	32F2	0	0	47	41		11	
	331005	21/01/2005	GO22	Beam trawl	33F2	0	0	4	8		9	
	331008	28/01/2005	GO28	Beam trawl	34F3	0	4	17	12		28	
	331009	04/02/2005	KW42	Beam trawl	33F2	0	0	34	24		20	
	331010	11/02/2005	ARM15	Beam trawl	31F2	0	0	17	51		11	
	331011	11/02/2005	ARM17	Beam trawl	32F2	0	0	18	45		5	
	331012	11/02/2005	VLI28	Beam trawl	32F2	0	0	0	16		10	
	331013	11/03/2005	GO9	Beam trawl	35F2	0	0	61	11		22	
	331014	11/03/2005	GO23	Beam trawl	32F2	0	0	25	82		7	
	331015	11/03/2005	GO14	Beam trawl	34F2	0	0	213	89		16	
	331016	18/03/2005	GO56	Beam trawl	34F3	0	0	10	15		20	
	331017	25/03/2005	KW42	Beam trawl	34F2	0	3	382	48		23	
						-----	-----	-----	-----		-----	
						0	7	914	497		212	
						-----	-----	-----	-----		-----	
						0	64	1130	520		282	
						=====	=====	=====	=====		=====	

Table : 17b

IMARES, 15NOV2007 14:00:31

Species : Ray spotted
Year : 2005, quarter : 2
Type : Commercial , age/length samples
Area type : ICES div

Table : 17c

IMARES, 15NOV2007 14:00:31

Species : Ray spotted
Year : 2005, quarter : 3
Type : Commercial , age/length samples
Area type : ICES div

Table : 17d

IMARES, 15NOV2007 14:00:31

Species : Ray spotted
Year : 2005, quarter : 4
Type : Commercial , age/length samples
Area type : ICES div

area	sample	landing	vessel	gear	ices	rect					Sample weight (kg)	Number measured	Number aged
	number	date					Cat 1	Cat 2	Cat 3	Cat 4			
IVB	331025	04/11/2005	SC41	Twin trawl	37F3		0	0	17	19		20	
	331030	18/11/2005	FR231	Twin trawl	38F3		0	0	489	419		24	
	331033	25/11/2005	SC19	Twin trawl	37F2		0	4	141	80		31	
	331038	16/12/2005	FR231	Twin trawl	38F3		0	0	26	28		23	
							-----	-----	-----	-----			
							0	4	673	546		98	
							-----	-----	-----	-----			
IVC	331023	07/10/2005	G09	Beam trawl	34F2		0	0	300	460		20	
	331024	21/10/2005	G09	Beam trawl	35F2		0	3	36	79		12	
	331026	11/11/2005	SL3	Beam trawl	35F2		0	0	151	137		24	
	331027	11/11/2005	OD8	Beam trawl	32F3		0	0	0	15		7	
	331028	11/11/2005	GO14	Beam trawl	34F2		0	0	150	58		17	
	331029	11/11/2005	GO48	Beam trawl	35F2		0	0	14	33		5	
	331031	21/11/2005	LT1005	Beam trawl	33F2		0	0	72	36		23	
	331032	21/11/2005	SC21	Beam trawl	33F2		0	0	18	46		9	
	331034	02/12/2005	LT1005	Beam trawl	33F2		0	0	49	12		12	
	331035	02/12/2005	GO28	Beam trawl	34F3		0	0	23	13		15	
	331036	09/12/2005	VLI27	Beam trawl	32F2		0	0	80	14		4	
	331037	09/12/2005	ARM44	Beam trawl	31F2		0	0	57	43		18	
							-----	-----	-----	-----			
							0	3	950	946		166	
							-----	-----	-----	-----			
							0	7	1623	1492		264	
							=====	=====	=====	=====			

Table : 18d

IMARES, 15NOV2007 14:00:31

Species : Ray starry
Year : 2005, quarter : 4
Type : Commercial , age/length samples
Area type : ICES div

Table : 19a

IMARES, 15NOV2007 14:00:31

Species : Ray thornback
Year : 2005, quarter : 1
Type : Commercial , age/length samples
Area type : ICES div

Table : 19b

IMARES, 15NOV2007 14:00:31

Species : Ray thornback
Year : 2005, quarter : 2
Type : Commercial , age/length samples
Area type : ICES div

Table : 19c

IMARES, 15NOV2007 14:00:31

Species : Ray thornback
Year : 2005, quarter : 3
Type : Commercial , age/length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect					Sample weight (kg)	Number measured	Number aged
						Cat 1	Cat 2	Cat 3	Cat 4			
IVB	321023	26/08/2005	UK1	Beam trawl	37F1	10	13	4	0		7	
						-----	-----	-----	-----			
						10	13	4	0			
IVC	321022	19/08/2005	GO4	Beam trawl	35F2	0	41	25	2		24	
						-----	-----	-----	-----			
						0	41	25	2			
						10	54	29	2		31	
						=====	=====	=====	=====			
						=====	=====	=====	=====			

Table : 19d

IMARES, 15NOV2007 14:00:31

Species : Ray thornback
Year : 2005, quarter : 4
Type : Commercial , age/length samples
Area type : ICES div

Table : 20a

IMARES, 15NOV2007 14:00:31

Species : Ray cuckoo
Year : 2005, quarter : 1
Type : Commercial , age/length samples
Area type : ICES div

area	sample number	landing date	vessel	gear	ices rect					Sample weight (kg)	Number measured	Number aged
						Cat 1	Cat 2	Cat 3	Cat 4			
IVB	351001	24/01/2005	KW45	Beam trawl	37F1	0	0	2	0		1	
						-----	-----	-----	-----			
						0	0	2	0			
IVC	351002	28/01/2005	GO28	Beam trawl	34F3	0	0	1	0		1	
						-----	-----	-----	-----			
						0	0	1	0			
						-----	-----	-----	-----			
						0	0	3	0		2	
						=====	=====	=====	=====			
						=====	=====	=====	=====			

Table : 20d

IMARES, 15NOV2007 14:00:31

Species : Ray cuckoo
Year : 2005, quarter : 4
Type : Commercial , age/length samples
Area type : ICES div

Table : 21c

IMARES, 15NOV2007 14:00:31

Species : Red mullet
Year : 2005, quarter : 3
Type : Commercial , length samples
Area type : ICES div

Table : 22c

IMARES, 15NOV2007 14:00:31

Species : Bass
Year : 2005, quarter : 3
Type : Commercial , age samples
Area type : ICES div

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Overview of sampling information

Generated: 15NOV2007 14:00:31

Type	species	sample type	area	Q	number of samples	Number measured	Number aged
Commercial	Bass	age	IVC	3	1		46
					-----	-----	-----
					1		46
					=====	=====	=====
	Blue whiting	age/length	44D7	2	3	845	75
			VIA	1	11	2414	275
				2	20	4959	500
			VIIC	1	33	1579	825
			VIIK	1	2	255	50
					-----	-----	-----
					69	10052	1725
					=====	=====	=====
	Brill	age/length	IVB	1	2	64	64
				2	4	120	120
				3	1	23	23
				4	2	60	60
			IVC	1	3	94	94
				2	6	180	180
				3	3	89	89
				4	3	94	94
					-----	-----	-----
					24	724	724
					=====	=====	=====
	Cod	age	IIIA	2	1	44	44
			IVB	1	2	112	112
				2	4	228	228
				3	4	218	218
				4	6	311	311
			IVC	1	10	559	559
				2	5	229	229
				4	7	347	347
					-----	-----	-----
					39	2048	2048
					=====	=====	=====

	length	IIIA	2	1	44	
		IVB	1	2	111	
			2	4	228	
			3	4	218	
			4	6	311	
		IVC	1	12	669	
			2	5	229	
			4	7	347	
				-----	-----	-----
				41	2157	
				=====	=====	=====
Dab	age	IVB	1	1	25	
			2	2	50	
			3	1	25	
			4	1	25	
		IVC	1	2	50	
			2	1	25	
			3	2	50	
			4	2	50	
				-----	-----	-----
				12	300	
				=====	=====	=====
	length	IVB	1	1	161	
			2	2	546	
			3	1	178	
			4	1	170	
		IVC	1	8	572	
			2	5	453	
			3	3	497	
			4	5	591	
				-----	-----	-----
				26	3168	
				=====	=====	=====
Greater argentine	age/length	VIA	2	15	375	375

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Overview of sampling information

Generated: 15NOV2007 14:00:31

Type	species	sample type	area	Q	number of samples	Number measured	Number aged
					-----	-----	-----
					15	375	375
					=====	=====	=====
Commercial	Herring	age/length	IIA	2	2	202	50
				3	17	1385	425
			IVA	2	33	4204	825
				3	48	4592	1200
			IVB	2	14	2812	350
				3	1	110	25
			IVC	1	1	213	25
				4	5	771	125
			VIID	1	10	2373	250
				4	5	811	125
					-----	-----	-----
					136	17473	3400
					=====	=====	=====
	Horse mackerel	age/length	IVA	3	1	60	25
			IVC	1	4	416	100
			VIA	4	2	165	50
			VIIB	1	5	556	125
				3	1	25	25
			VIID	1	10	976	250
				4	22	3964	550
			VIIE	4	19	3444	475
			VIIH	1	1	87	25
				4	7	602	175
			VIIIB	1	6	1217	150
				2	8	2147	200
				4	4	368	100
			VIIJ	1	12	1908	300
				2	5	802	125
					-----	-----	-----
					107	16737	2675
					=====	=====	=====
	Lemon sole	age/length	IVB	2	1	71	71

			3	2	125	125
			4	2	98	98
		IVC	1	2	60	60
			4	1	50	50
					-----	-----
					8	404
					=====	=====
Mackerel	age/length	IIA	3	1	31	25
		IVA	2	4	339	100
			3	10	847	250
		IVB	2	1	72	25
		IVC	4	1	64	25
		VIIB	1	7	516	175
		VIID	1	7	492	175
			2	1	103	25
			4	7	679	175
		VIIE	4	2	302	50
		VIIH	1	1	43	25
		VIIIB	1	4	265	100
			2	7	646	175
		VIIJ	1	10	745	250
			2	3	161	75
					-----	-----
					66	5305
					=====	=====
						1650
Nephrops	age/length	IVB	1	3	1436	
			2	8	3981	
			3	7	3177	
			4	5	2570	
					-----	-----
					23	11164
					=====	=====
Plaice	age/length	IVB	1	11	659	659
			2	9	540	540
			3	11	660	660
			4	10	598	598
		IVC	1	14	840	840

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Overview of sampling information

Generated: 15NOV2007 14:00:31

Type	species	sample type	area	Q	number of samples	Number measured	Number aged
Commercial	Plaice	age/length	IVC	2	9	539	539
				3	6	358	358
				4	10	600	600
					-----	-----	-----
					80	4794	4794
					=====	=====	=====
Ray blond		age/length	IVB	4	1	1	
			IVC	1	13	141	
				2	4	38	
				3	1	2	
				4	11	114	
			VIID	4	1	50	
					-----	-----	-----
					31	346	
					=====	=====	=====
Ray cuckoo		age/length	IVB	1	1	1	
				4	2	12	
			IVC	1	1	1	
					-----	-----	-----
					4	14	
					=====	=====	=====
Ray spotted		age/length	IVB	1	2	70	
				3	1	25	
				4	4	98	
			IVC	1	15	212	
				2	4	82	
				4	12	166	
					-----	-----	-----
					38	653	
					=====	=====	=====
Ray starry		age/length	IVB	4	1	1	
					-----	-----	-----
					1	1	
					=====	=====	=====

Ray thornback	age/length	IVB	1	1	8
			3	1	7
			4	2	12
		IVC	1	15	212
			2	5	30
			3	1	24
			4	12	189
		VIID	4	1	2

				38	484
			=====		
Red mullet	length	IVB	2	3	178
			3	1	57

				4	235
			=====		
Sole	age/length	IVB	1	6	300
			2	4	200
			3	6	300
			4	6	300
		IVC	1	9	442
			2	20	1000
			3	9	450
			4	9	448
		VIIE	2	1	50

				70	3490
			=====		
Turbot	age/length	IVB	1	2	94
			2	4	224
			3	1	50
			4	2	100
		IVC	1	3	139
			2	6	279
			3	3	139
			4	3	125

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Overview of sampling information

Generated: 15NOV2007 14:00:31

Type	species	sample type	area	Q	number of samples	Number measured	Number aged
					-----	-----	-----
					24	1150	1150
					=====	=====	=====
Commercial	Whiting	age	IVB	3	1	50	
				4	2	100	
			IVC	1	6	300	
				2	6	300	
				3	3	150	
				4	6	300	
					-----	-----	-----
					24	1200	
					=====	=====	=====
		length	IVB	2	1	48	
				3	2	272	
				4	3	260	
			IVC	1	12	1395	
				2	11	1436	
				3	5	680	
				4	11	1366	
					-----	-----	-----
					45	5457	
					=====	=====	=====

Figures

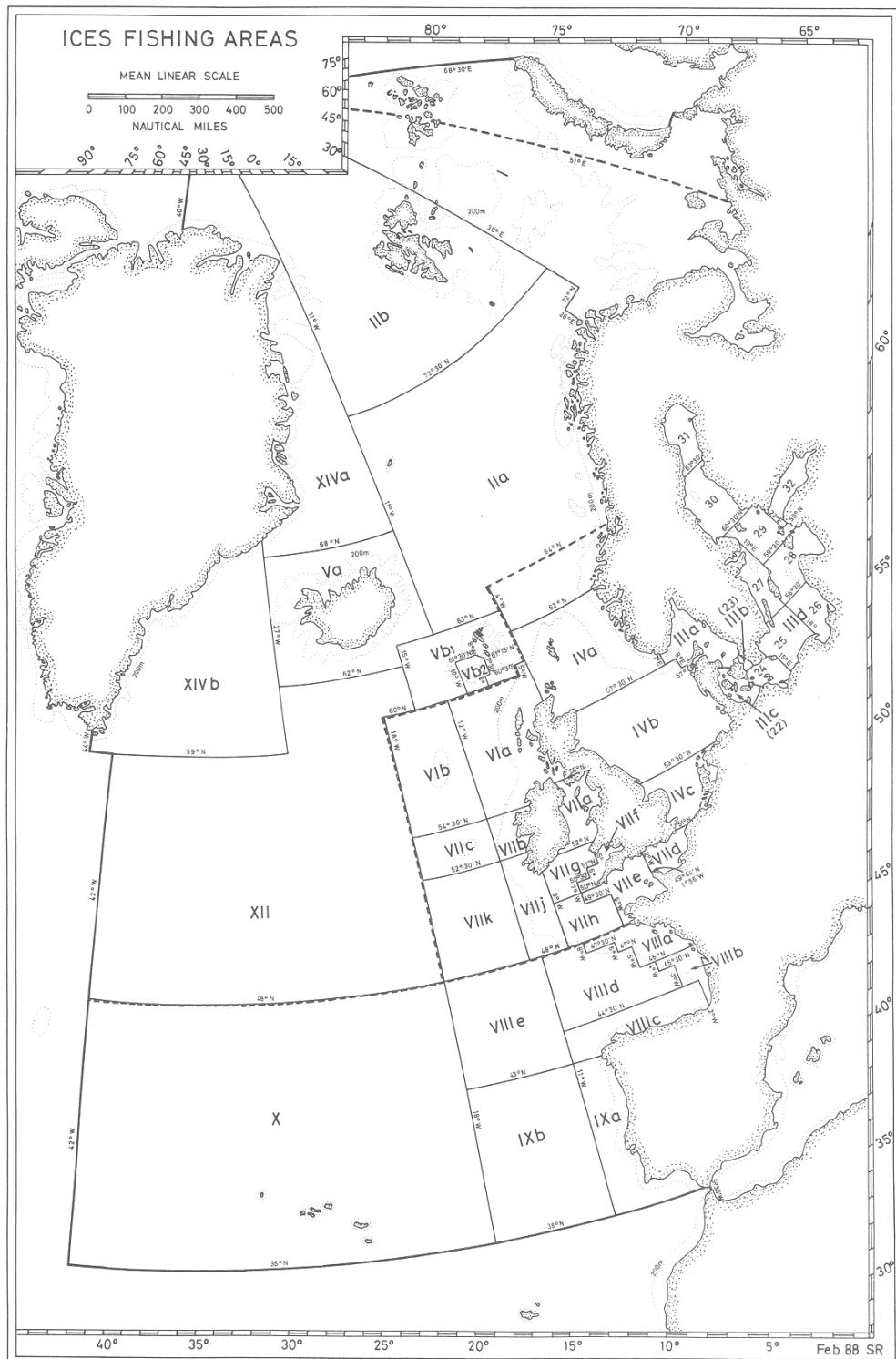


Figure 1: Map of ICES area

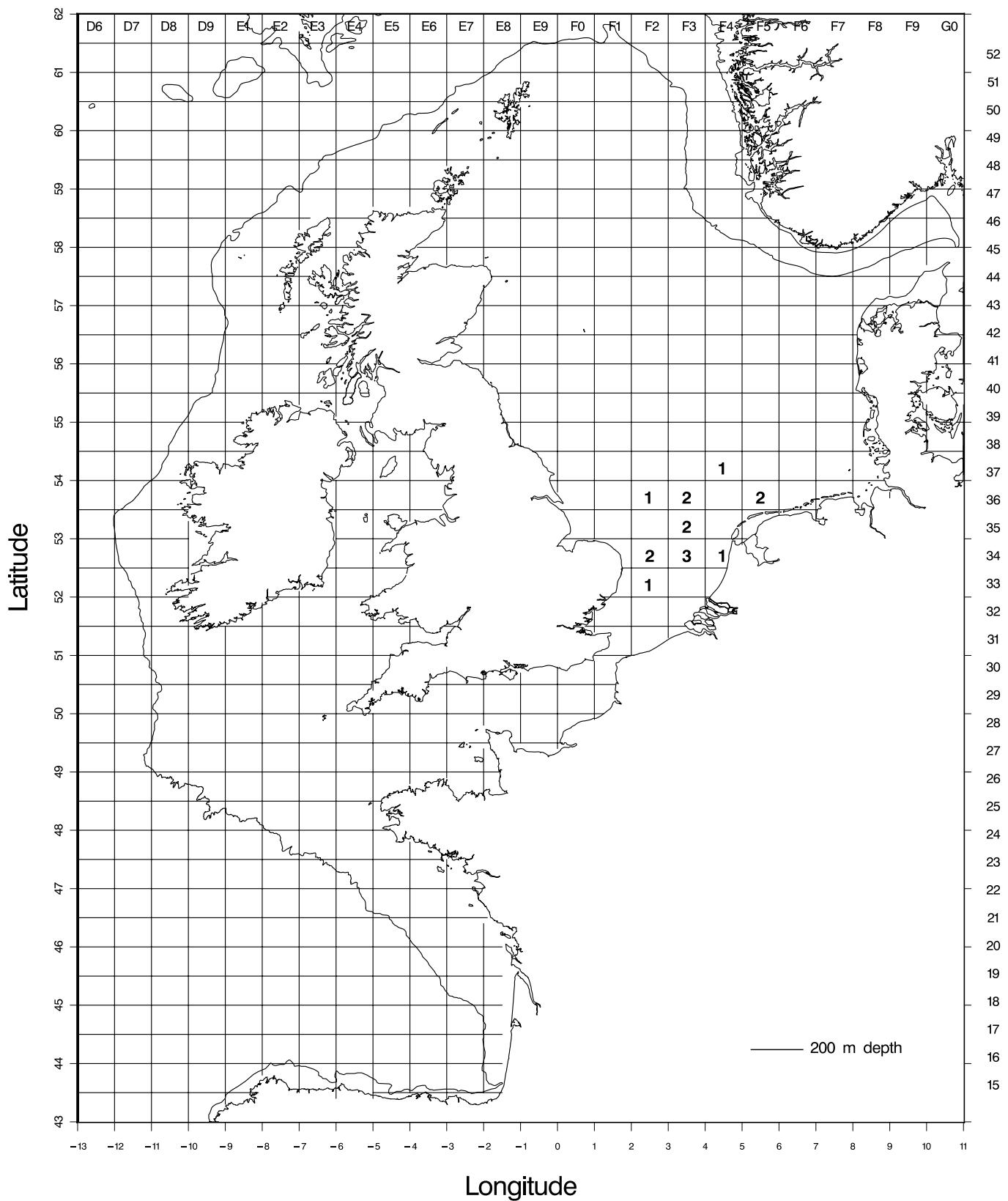


Figure 2a: Sole quarter 1 2005

Number of age/length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

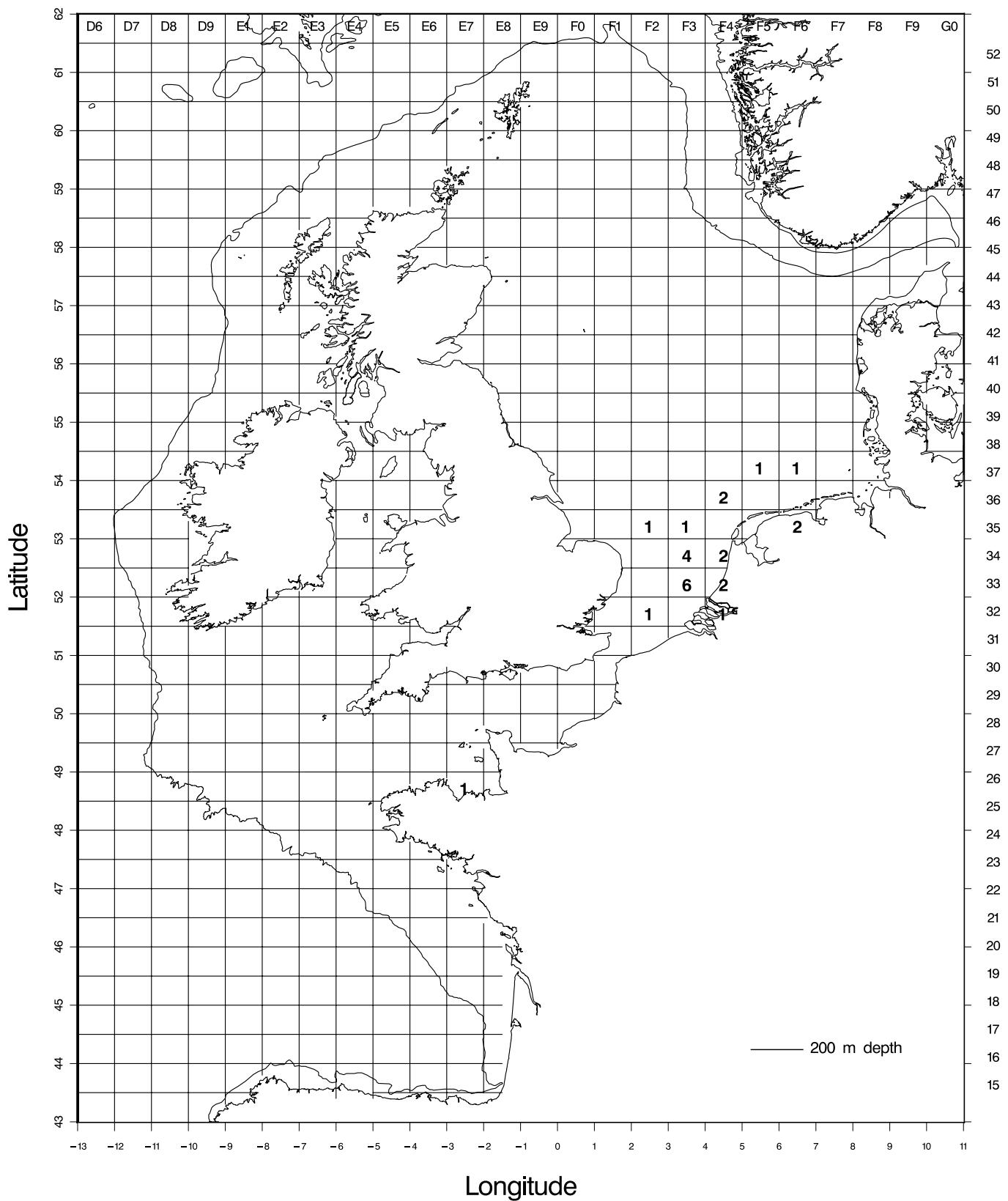


Figure 2b: Sole quarter 2 2005

Number of age/length samples of commercial catches per ICES rectangle

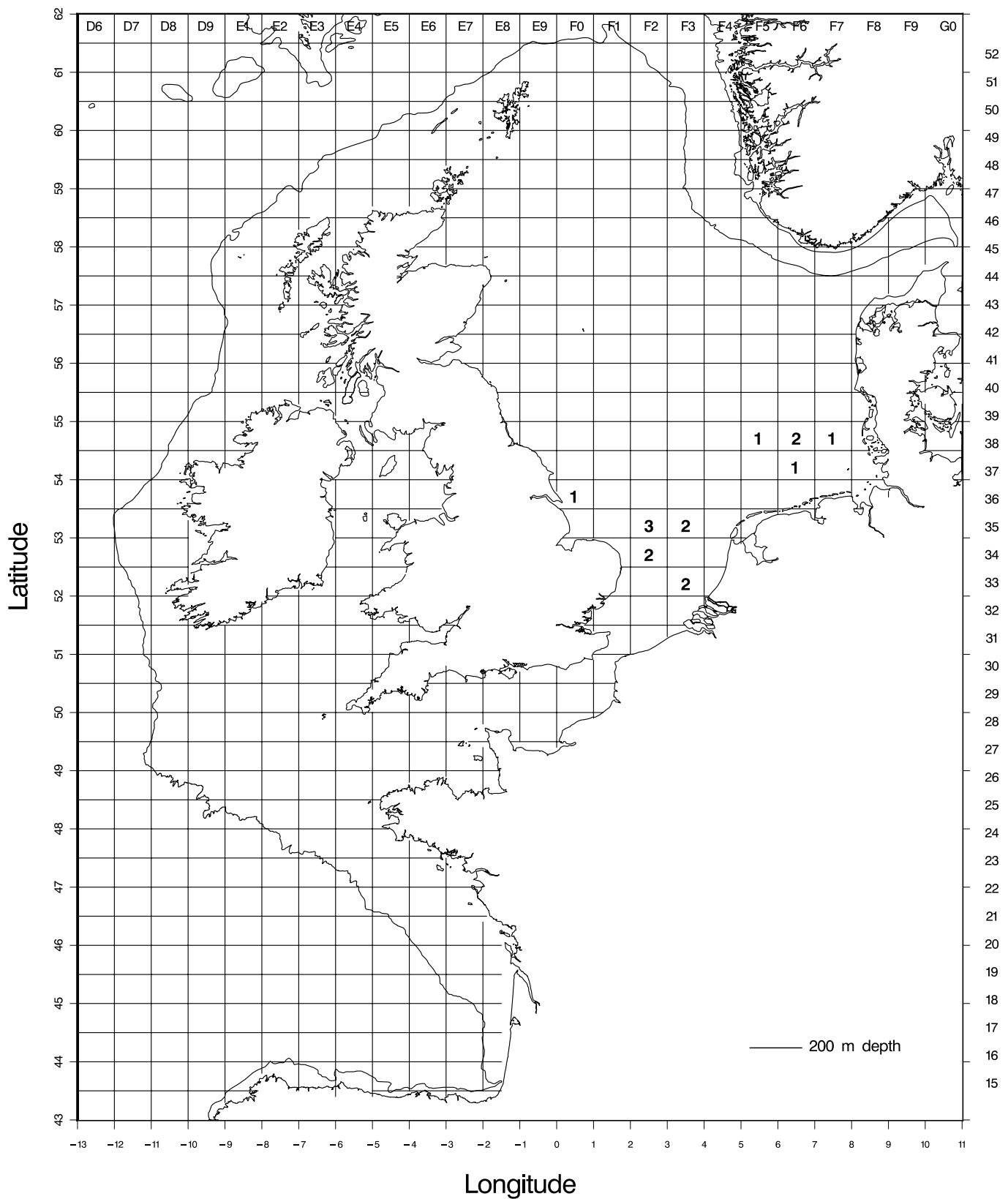


Figure 2c: Sole quarter 3 2005

Number of age/length samples of commercial catches per ICES rectangle

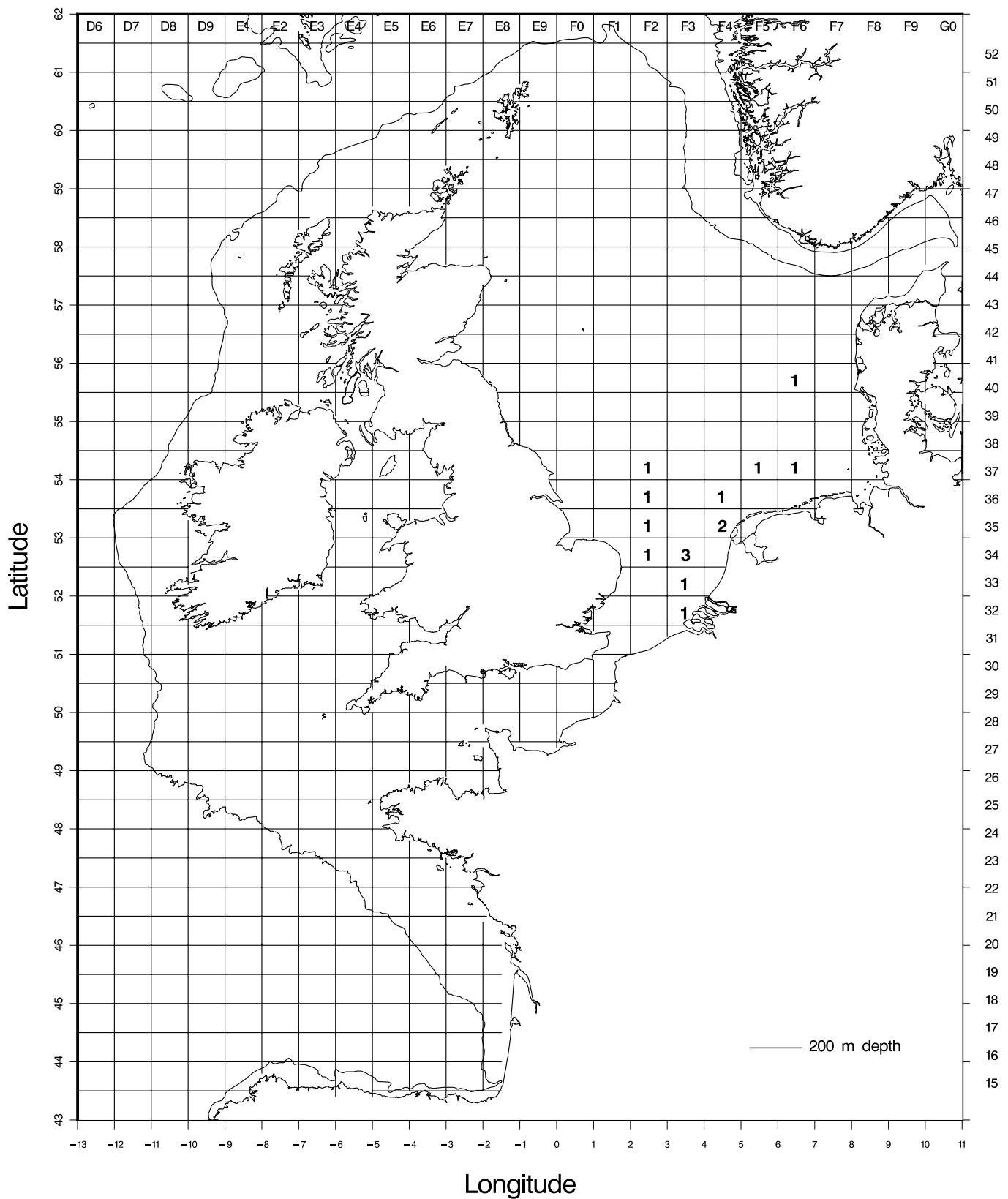


Figure 2d: Sole quarter 4 2005

Number of age/length samples of commercial catches per ICES rectangle

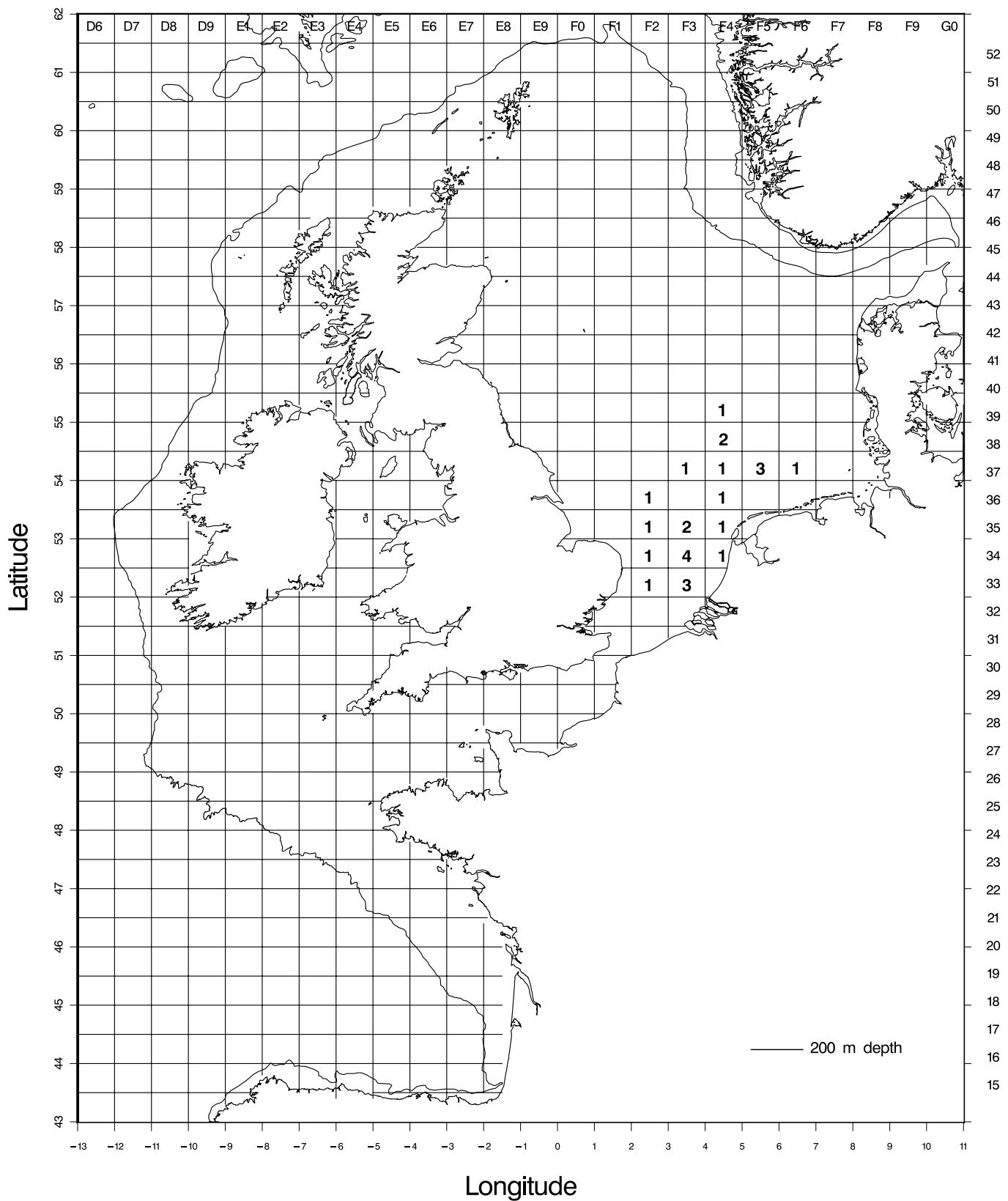


Figure 3a: Plaice quarter 1 2005

Number of age/length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)

Overview of samples

Generated: 16NOV2007 10:33:16

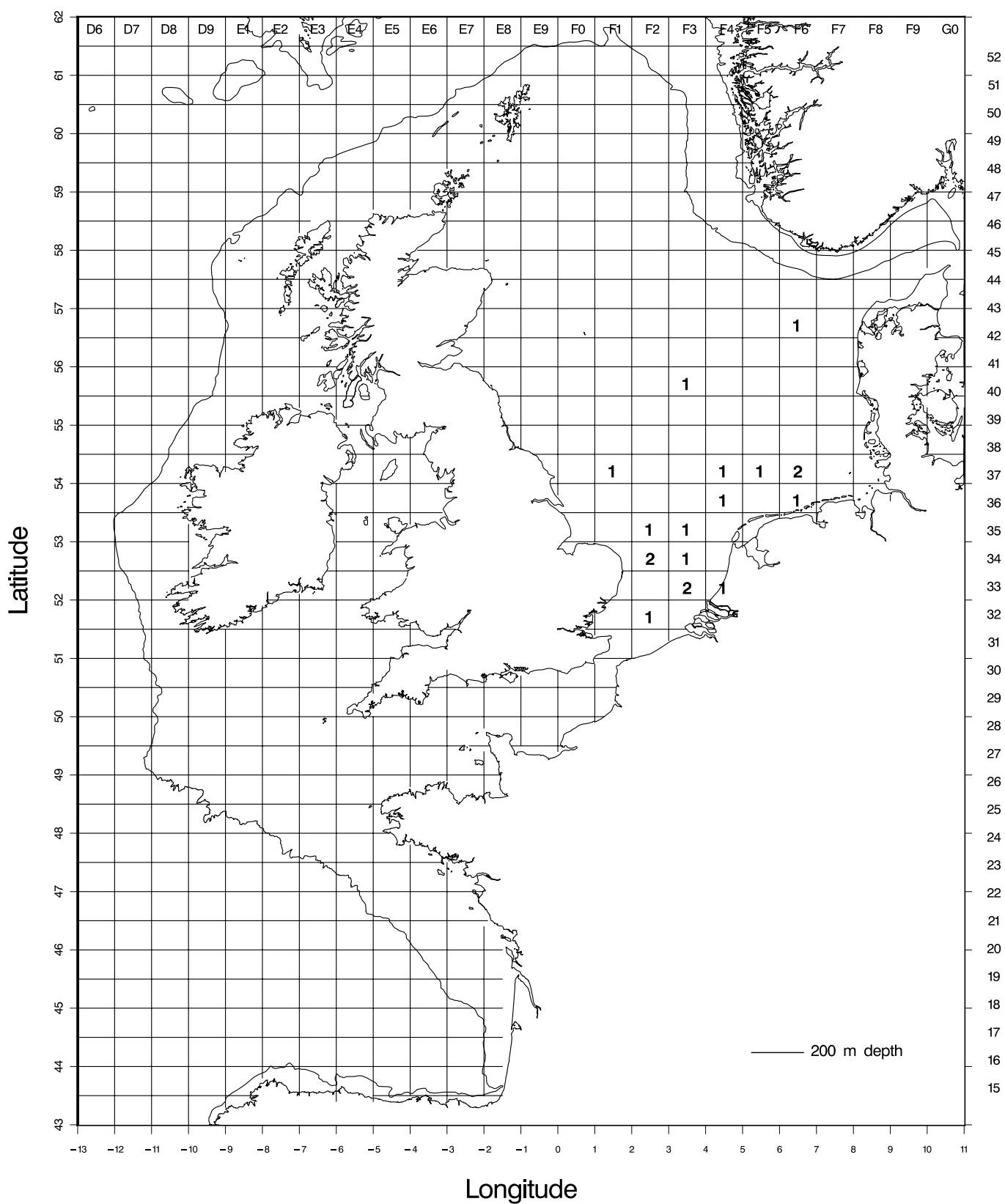


Figure 3b: Plaice quarter 2 2005

Number of age/length samples of commercial catches per ICES rectangle

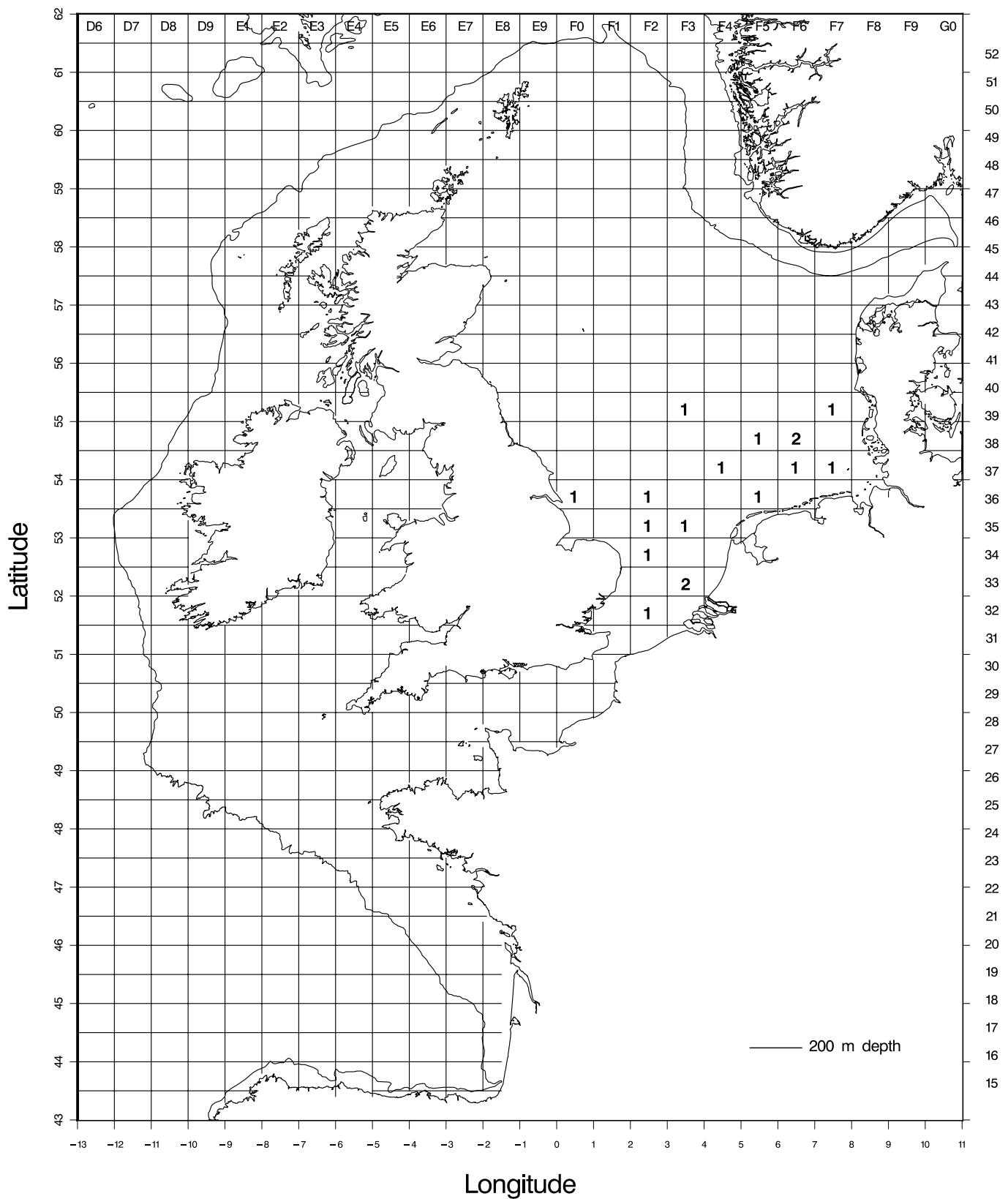


Figure 3c: Plaice quarter 3 2005

Number of age/length samples of commercial catches per ICES rectangle

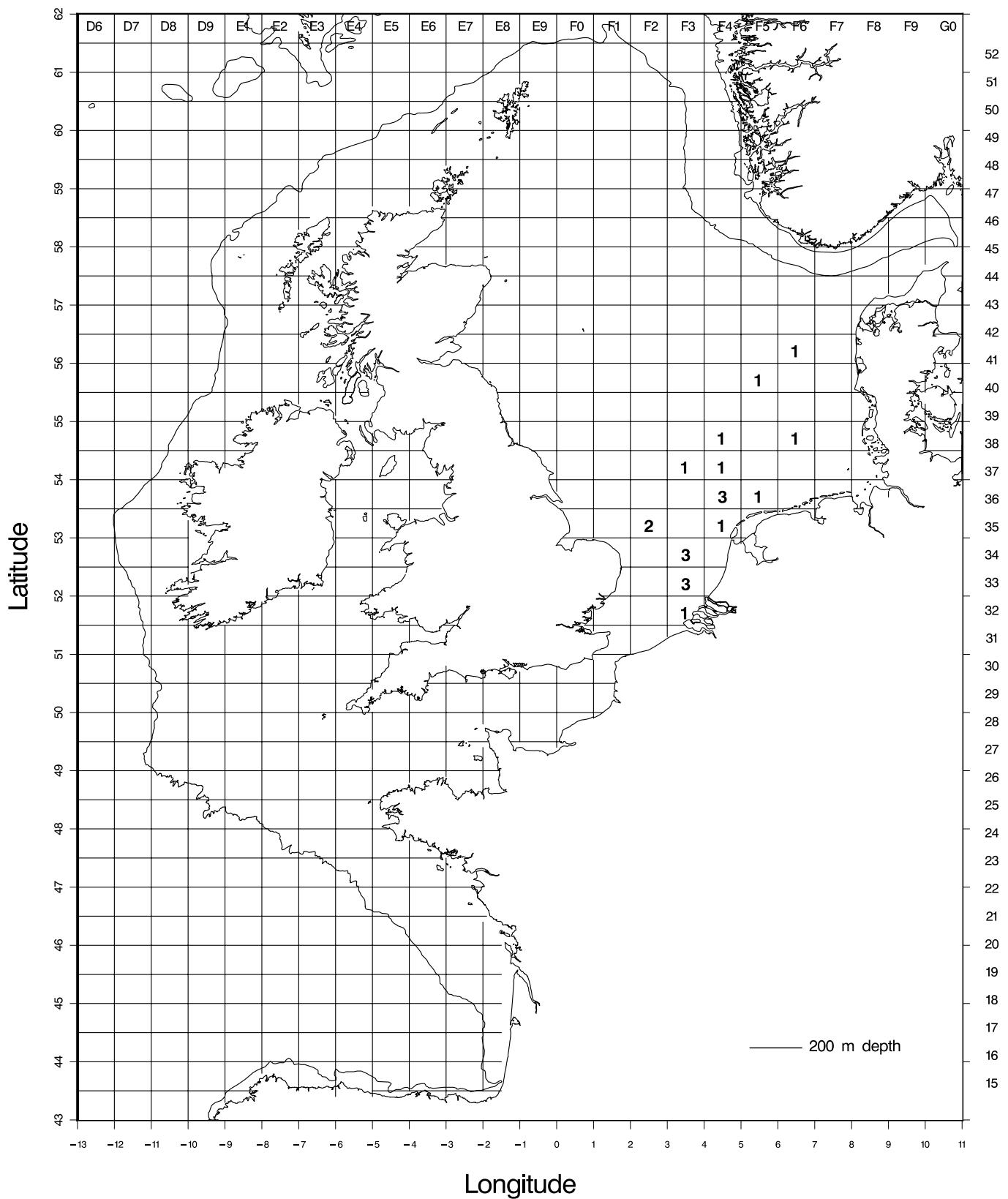


Figure 3d: Plaice quarter 4 2005

Number of age/length samples of commercial catches per ICES rectangle

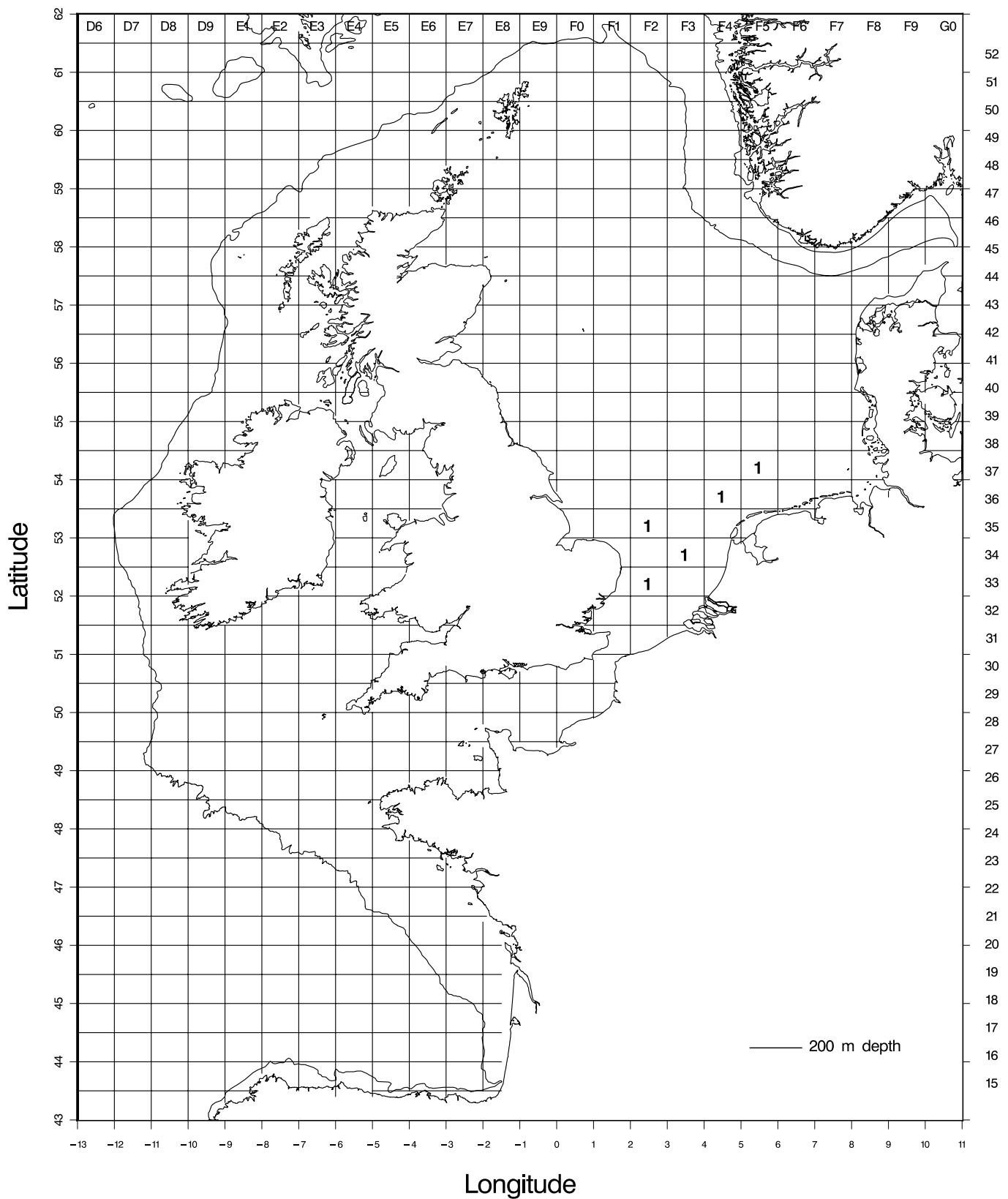


Figure 4a: Turbot quarter 1 2005

Number of age/length samples of commercial catches per ICES rectangle

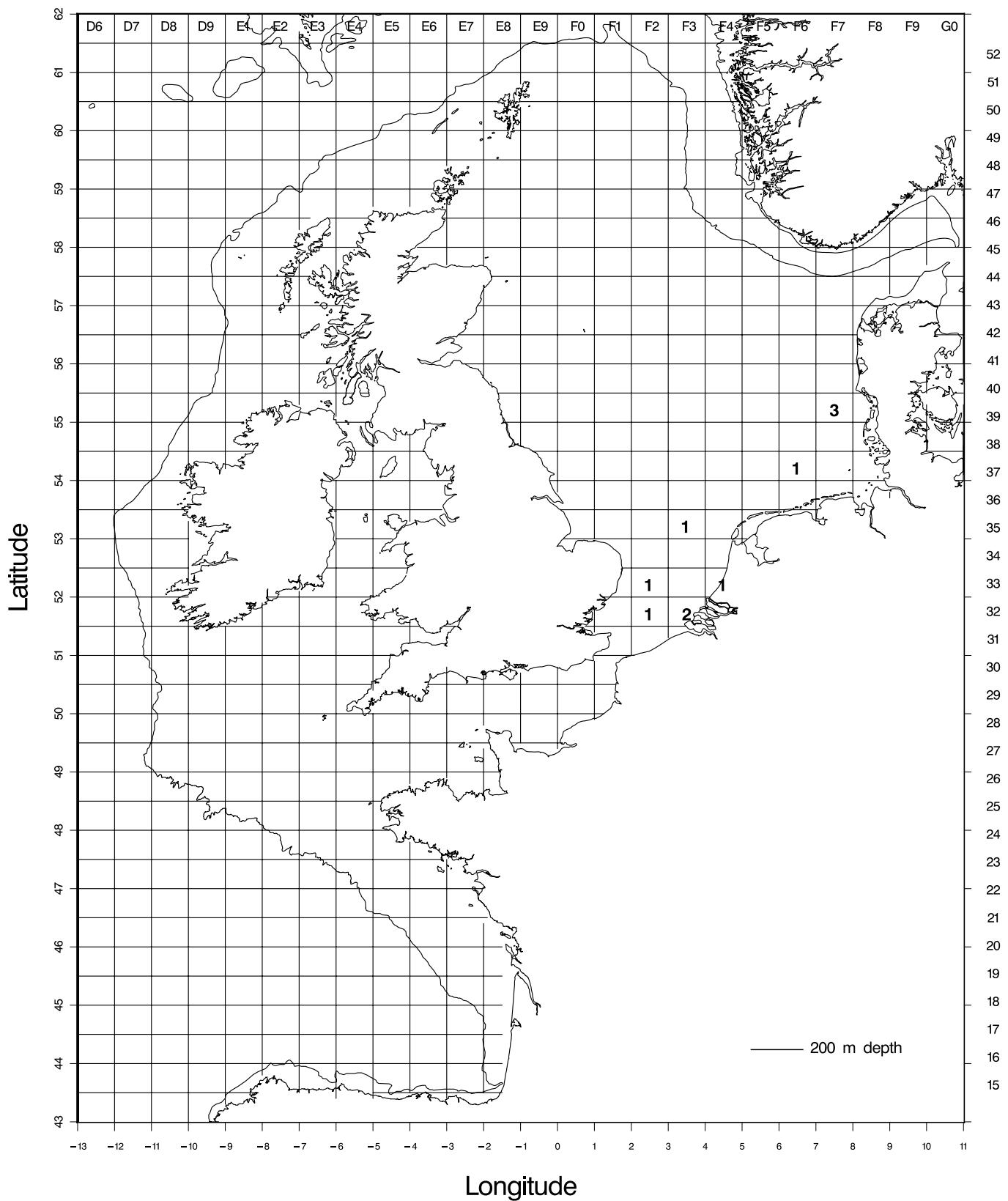


Figure 4b: Turbot quarter 2 2005

Number of age/length samples of commercial catches per ICES rectangle

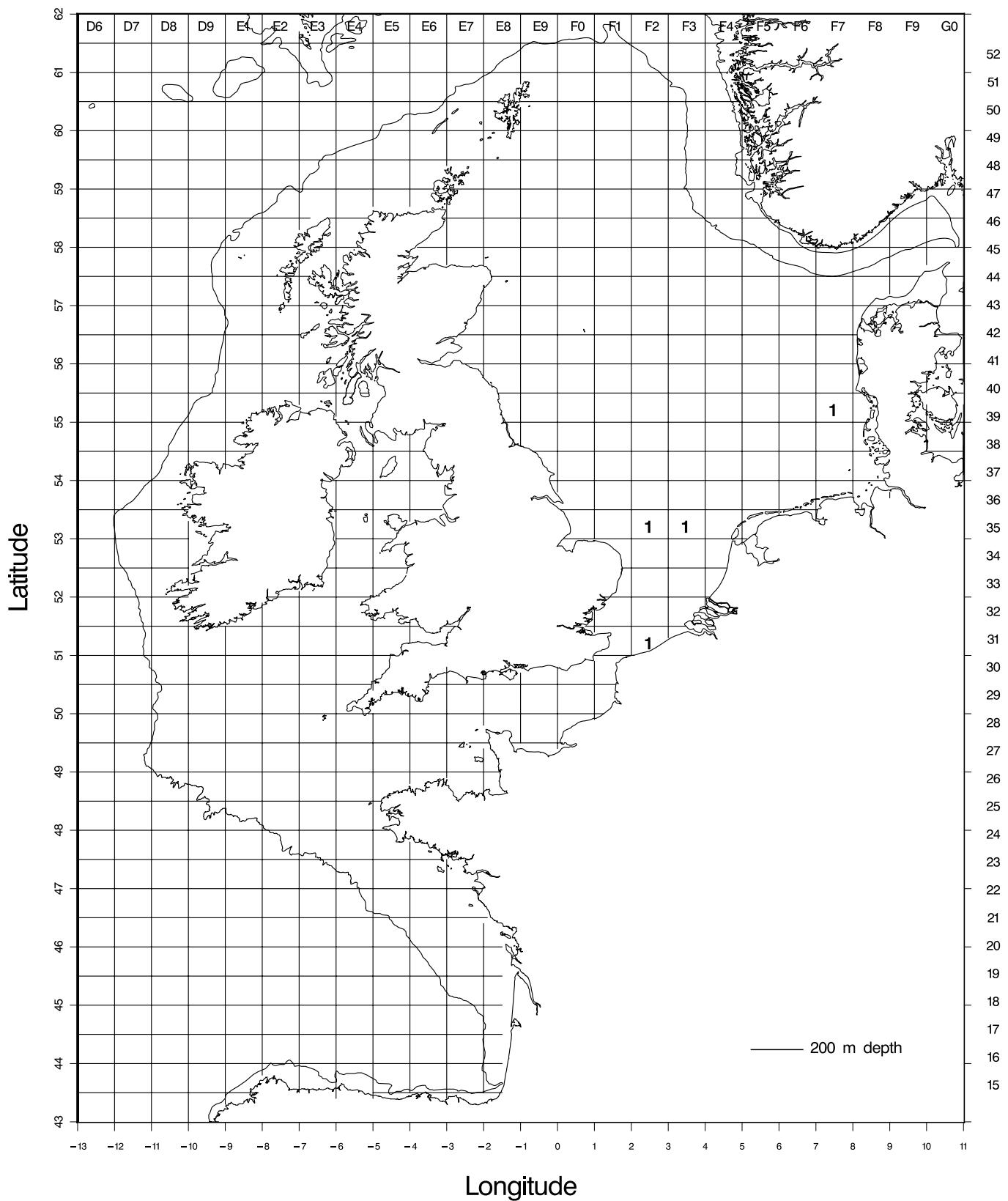


Figure 4c: Turbot quarter 3 2005

Number of age/length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

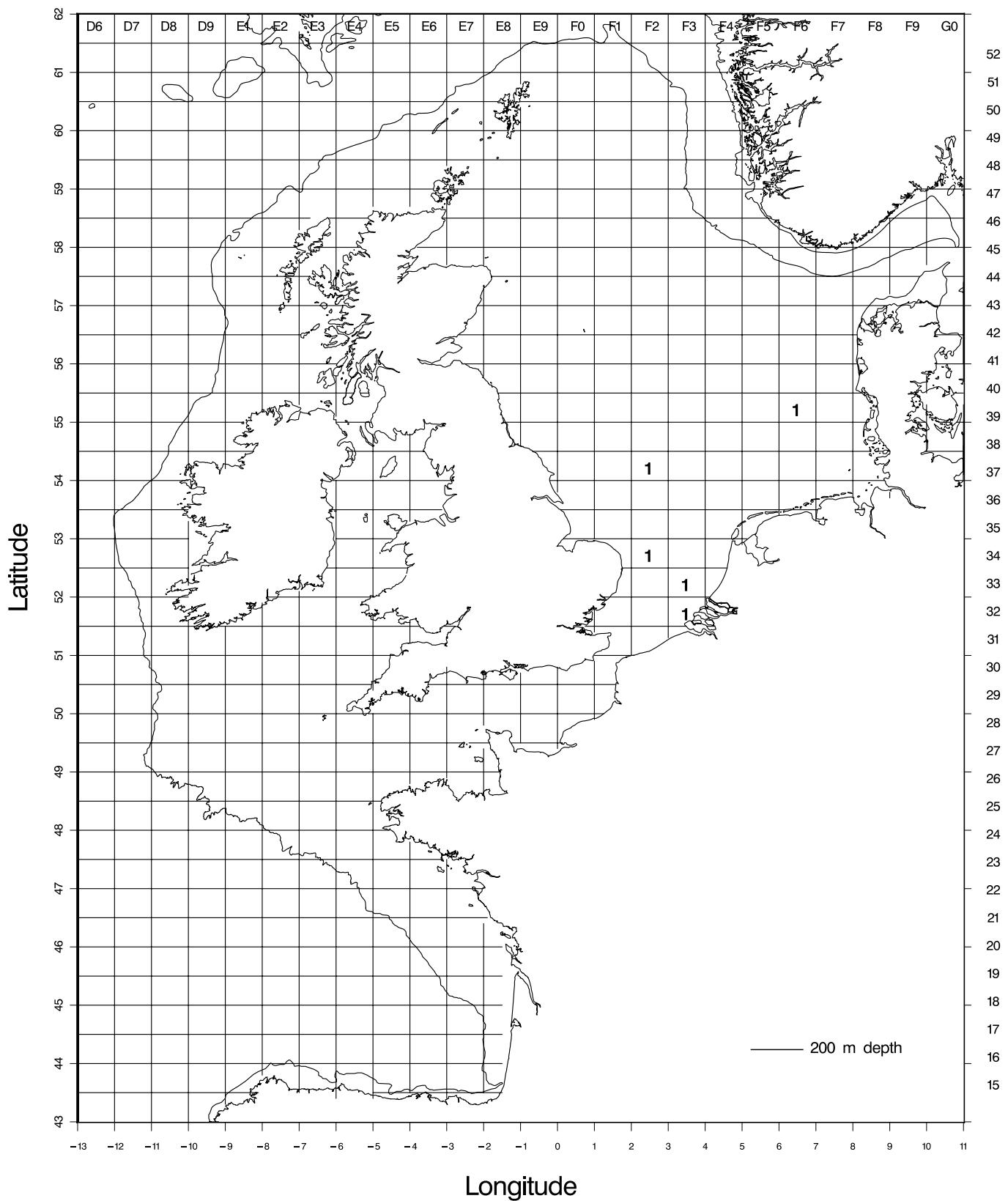


Figure 4d: Turbot quarter 4 2005

Number of age/length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

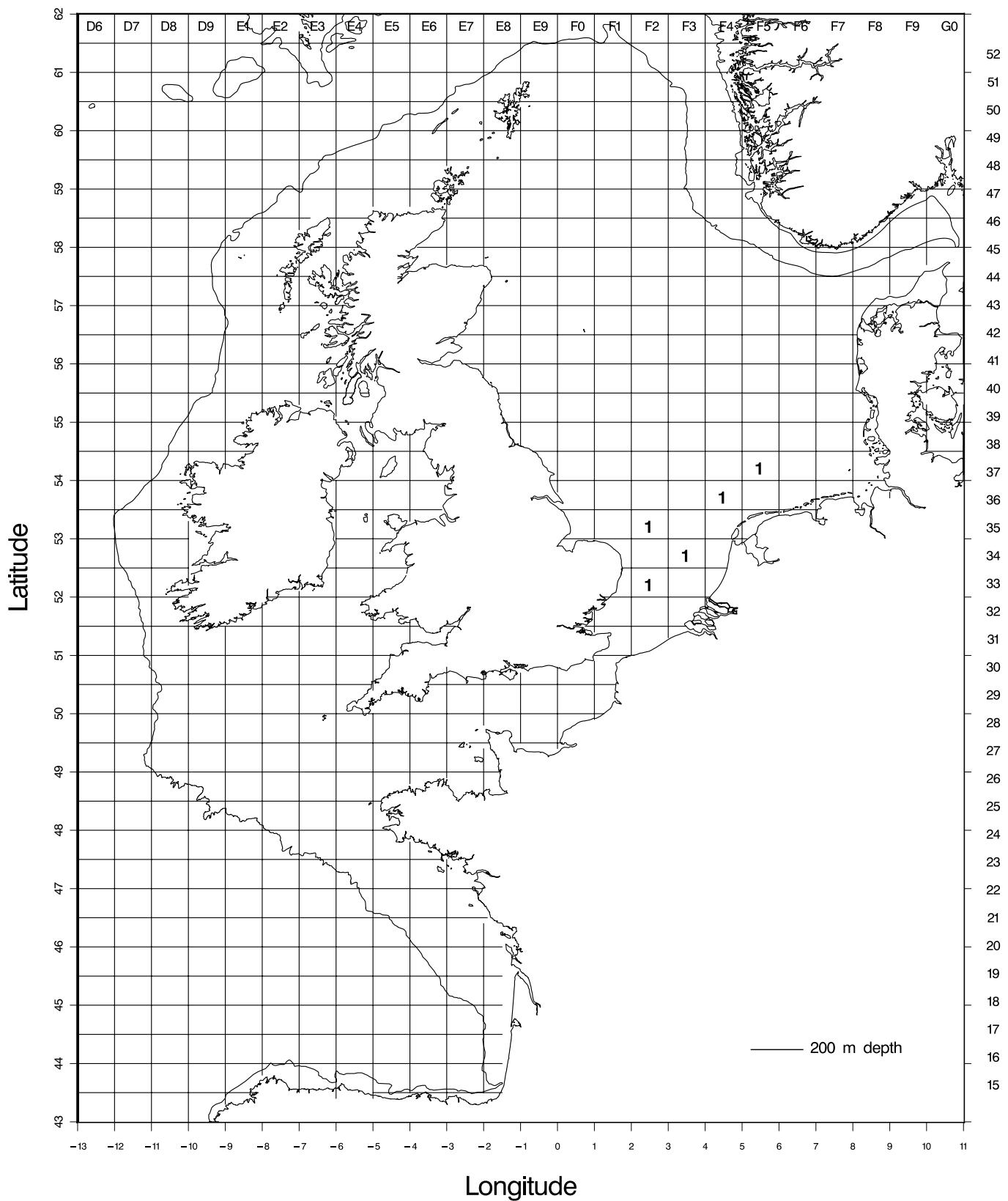


Figure 5a: Brill quarter 1 2005

Number of age/length samples of commercial catches per ICES rectangle

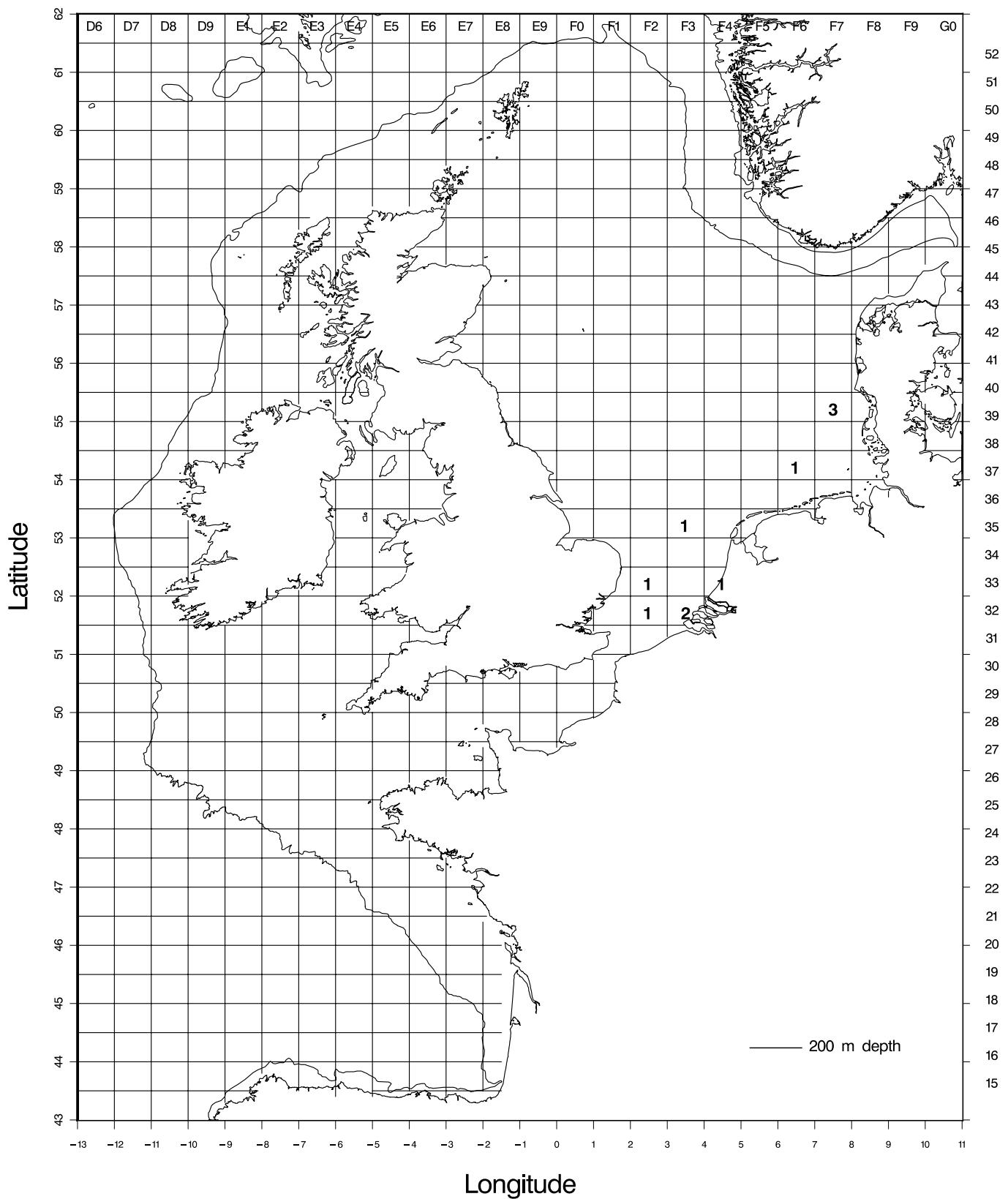


Figure 5b: Brill quarter 2 2005

Number of age/length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

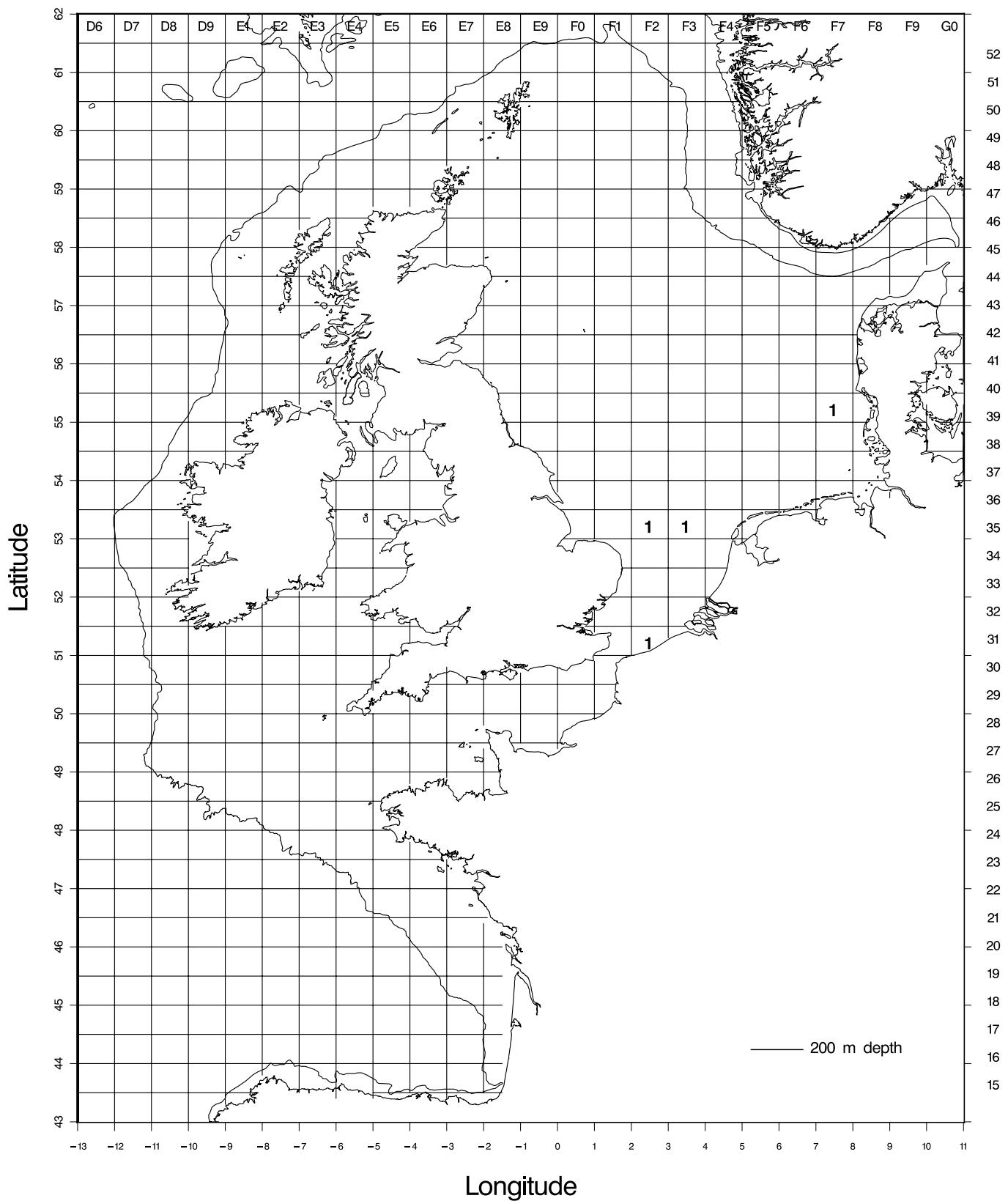


Figure 5c: Brill quarter 3 2005

Number of age/length samples of commercial catches per ICES rectangle

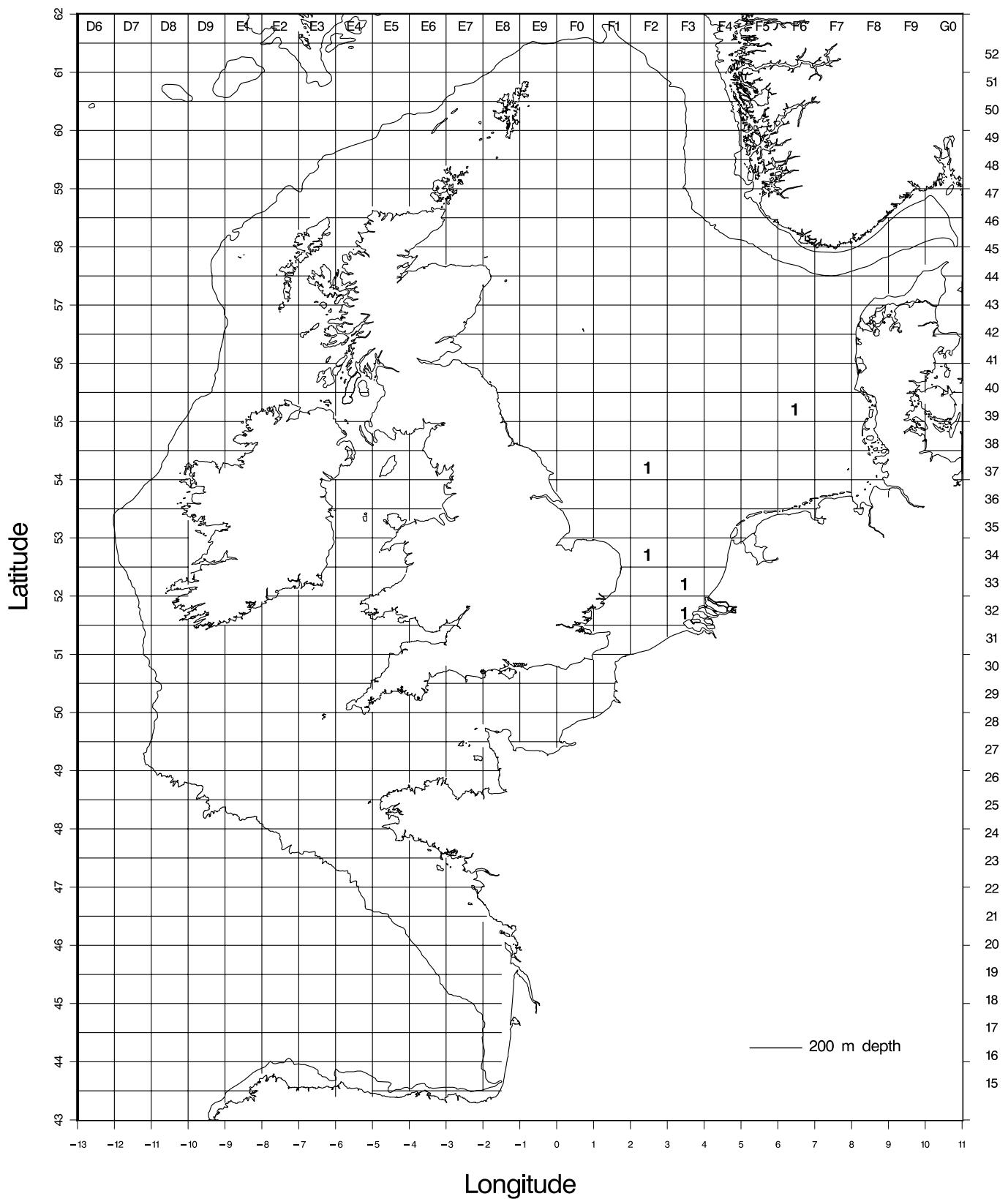


Figure 5d: Brill quarter 4 2005

Number of age/length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

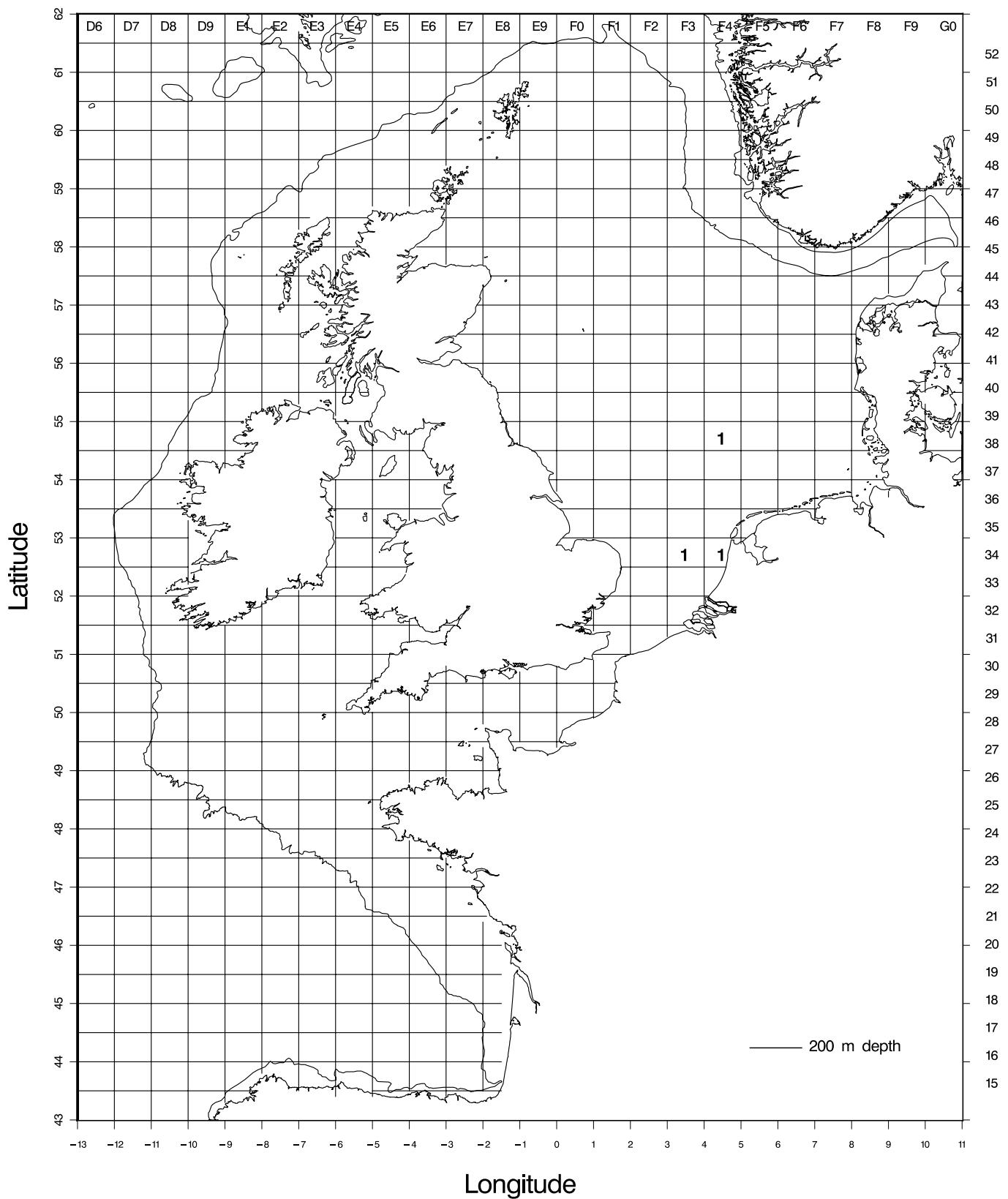


Figure 6a: Dab quarter 1 2005

Number of age samples of commercial catches per ICES rectangle

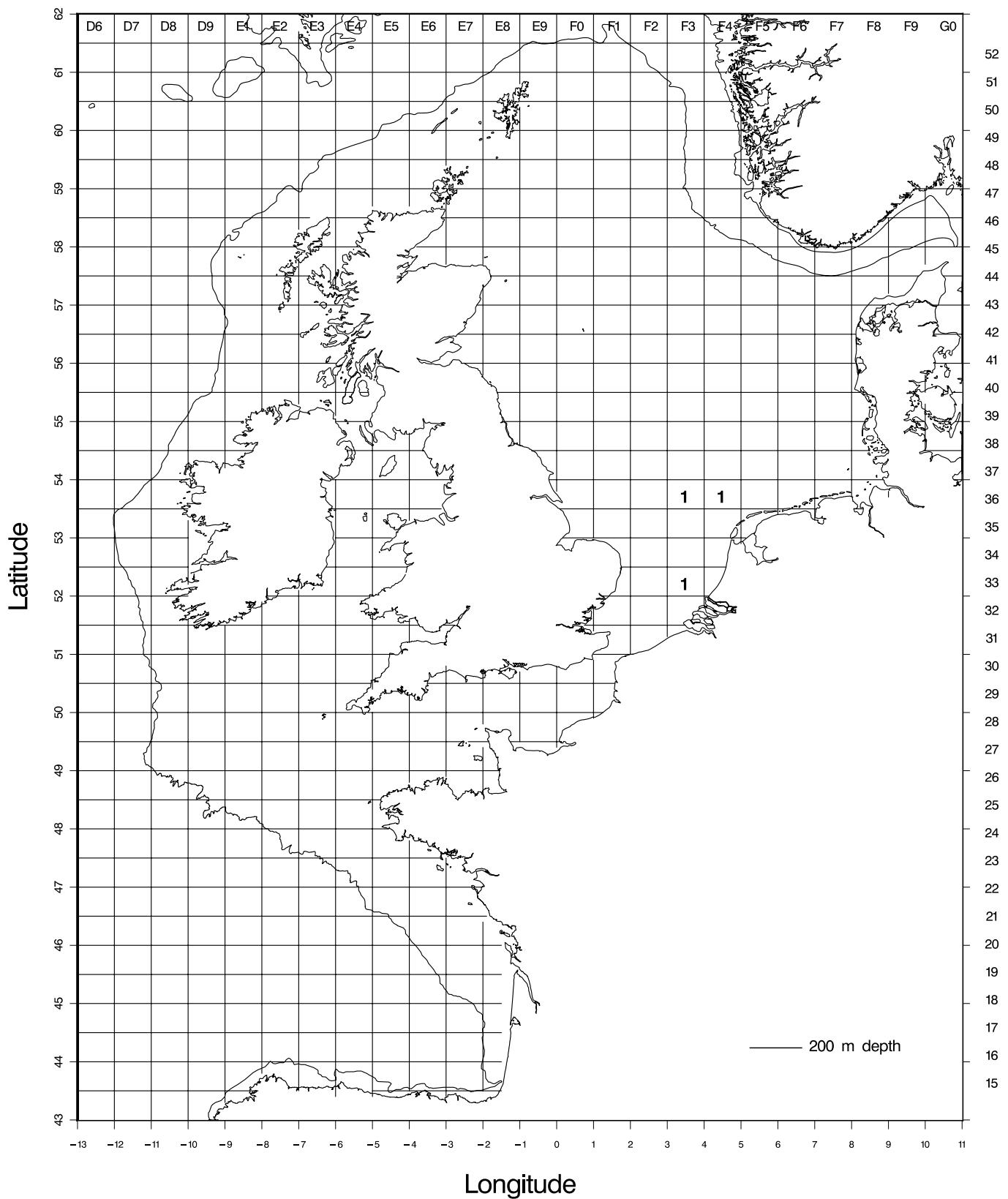


Figure 6b: Dab quarter 2 2005

Number of age samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

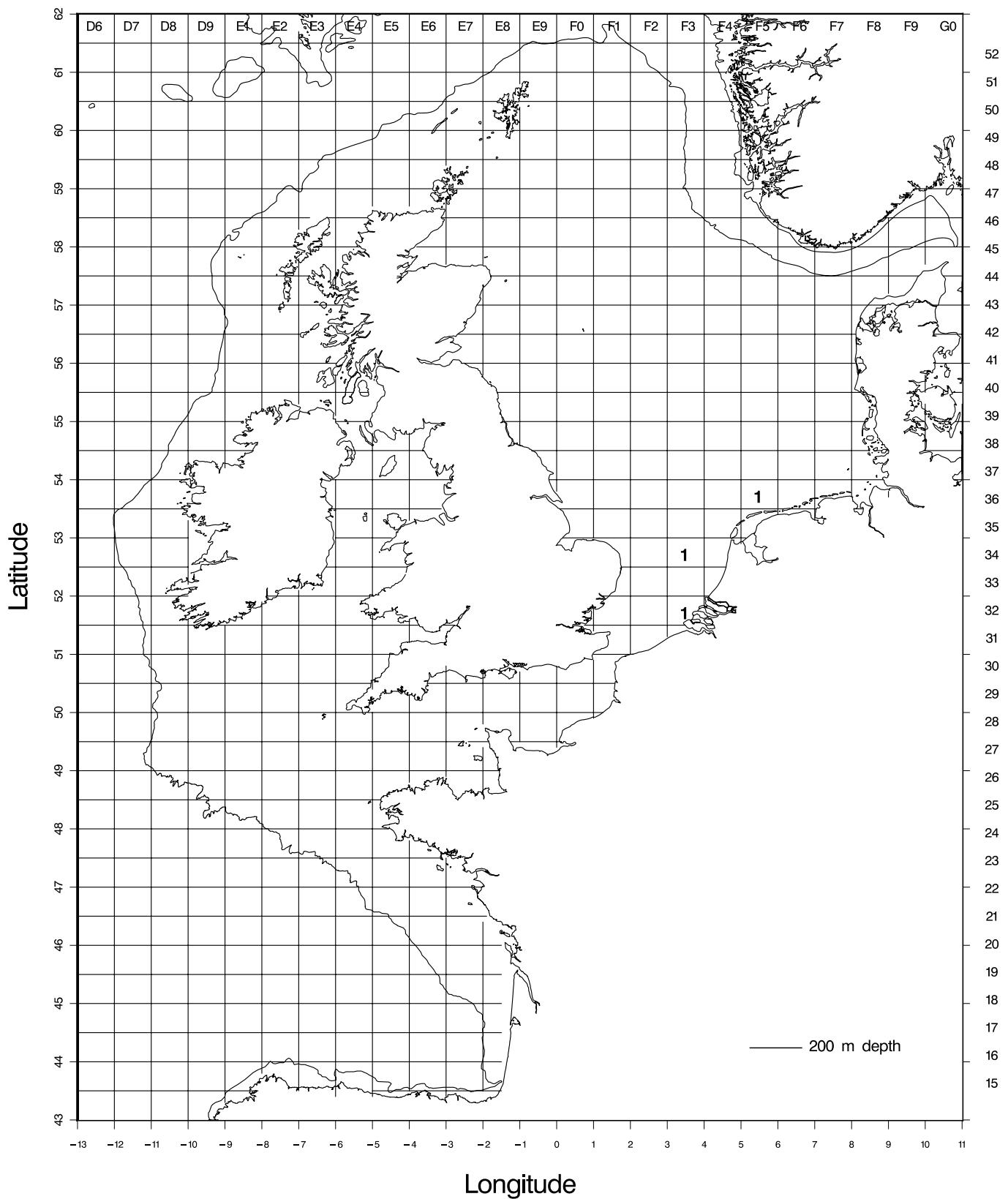


Figure 6c: Dab quarter 3 2005

Number of age samples of commercial catches per ICES rectangle

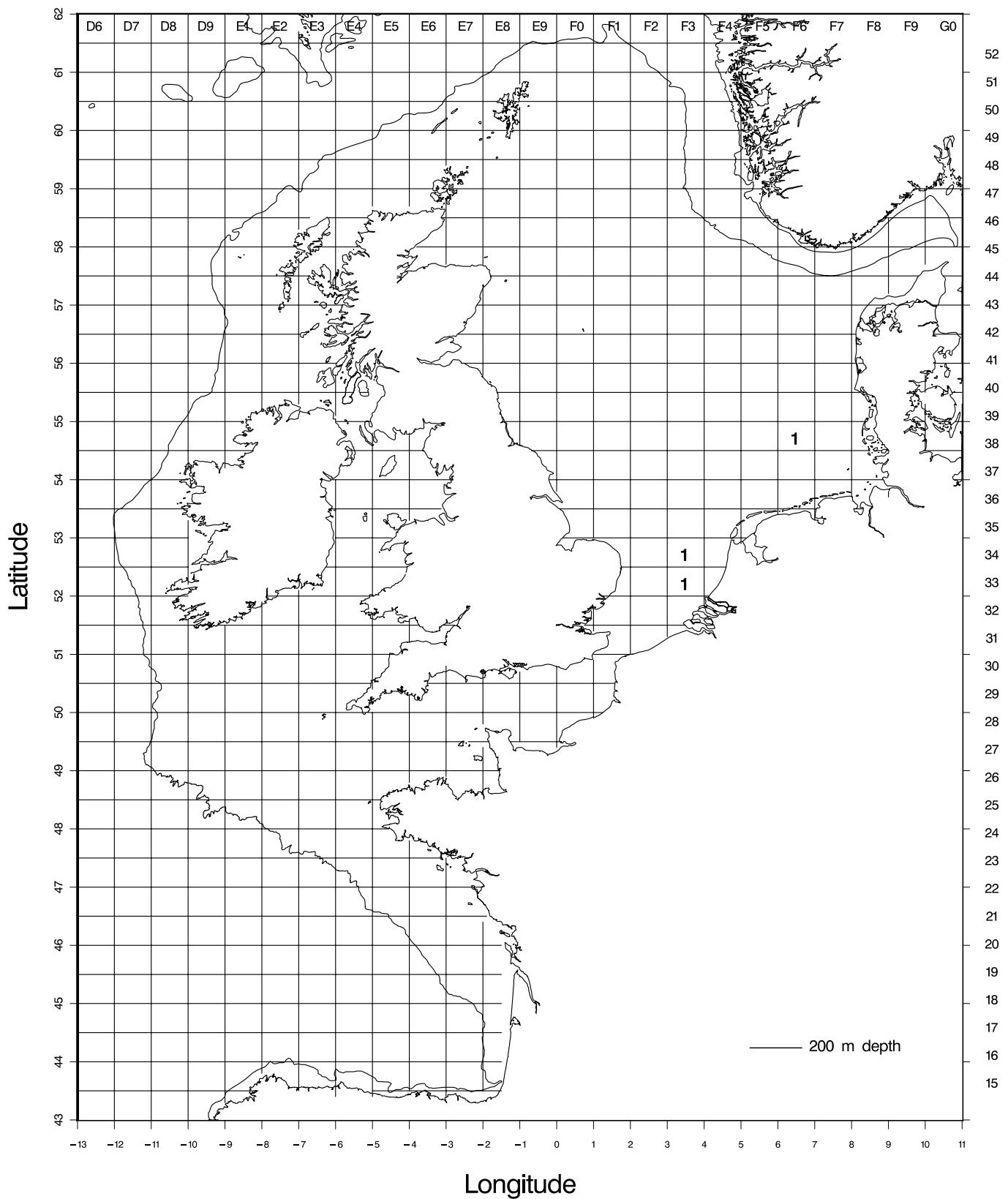


Figure 6d: Dab quarter 4 2005

Number of age samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

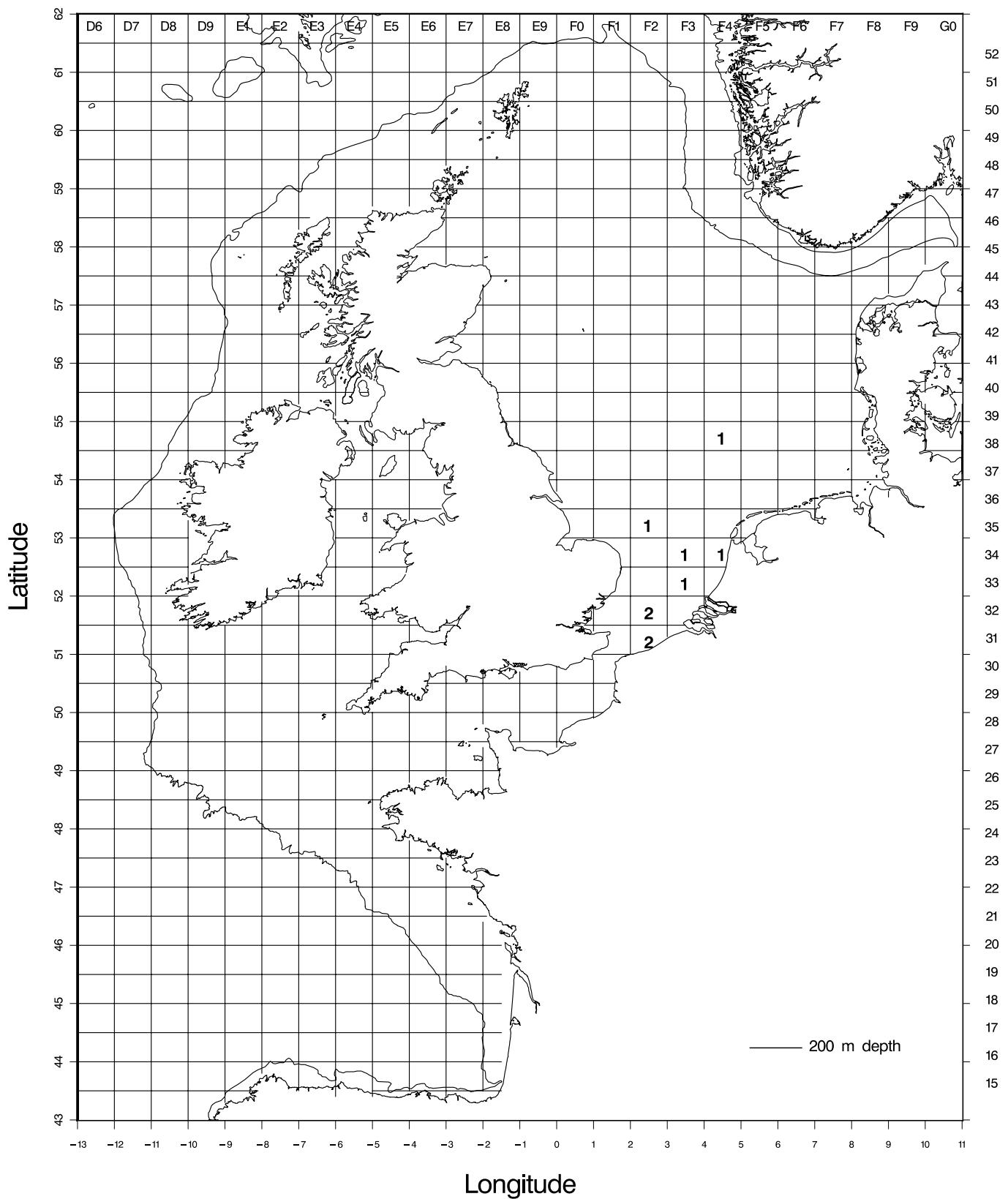


Figure 6e: Dab quarter 1 2005

Number of length samples of commercial catches per ICES rectangle

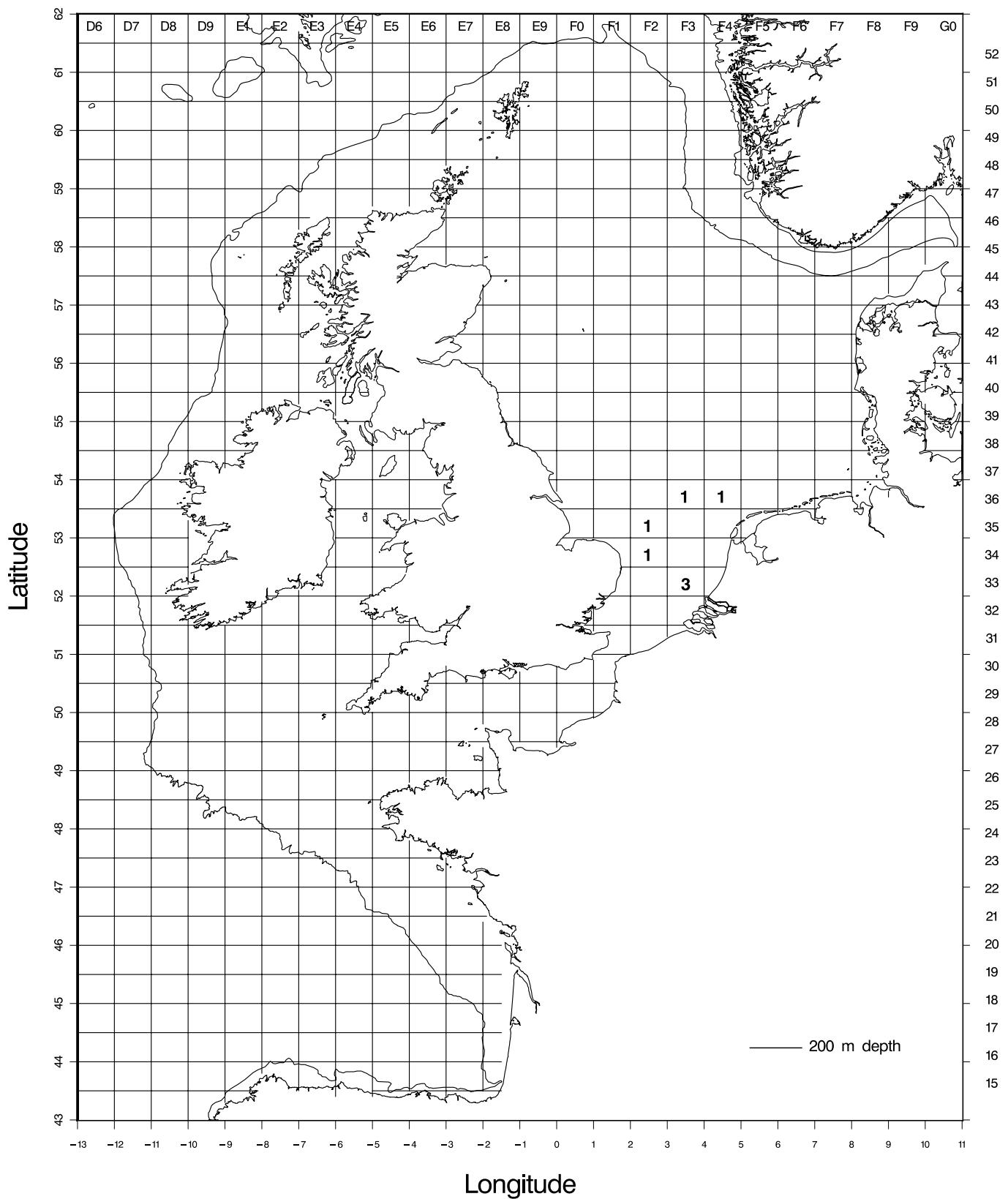


Figure 6f: Dab quarter 2 2005

Number of length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

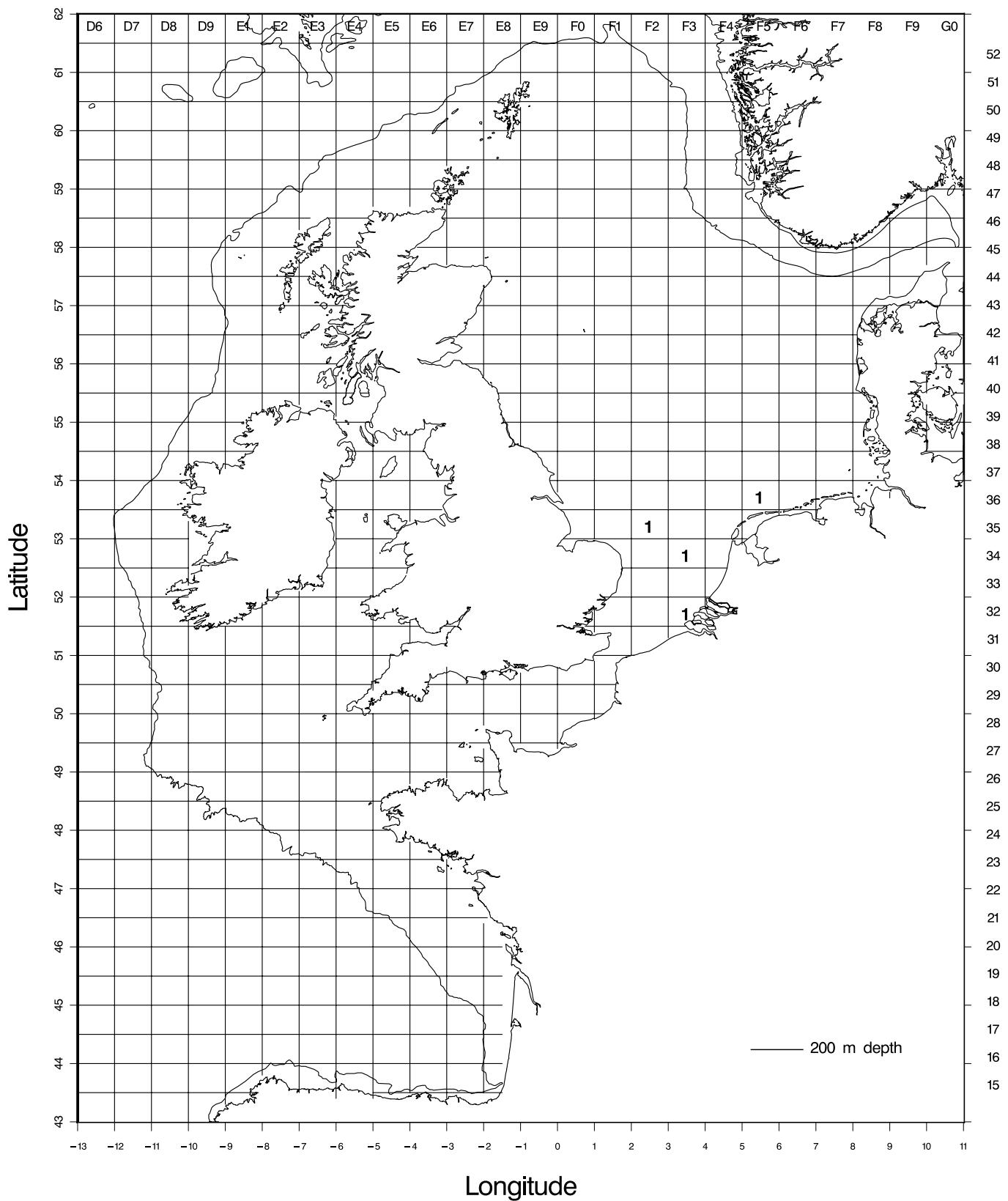


Figure 6g: Dab quarter 3 2005

Number of length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

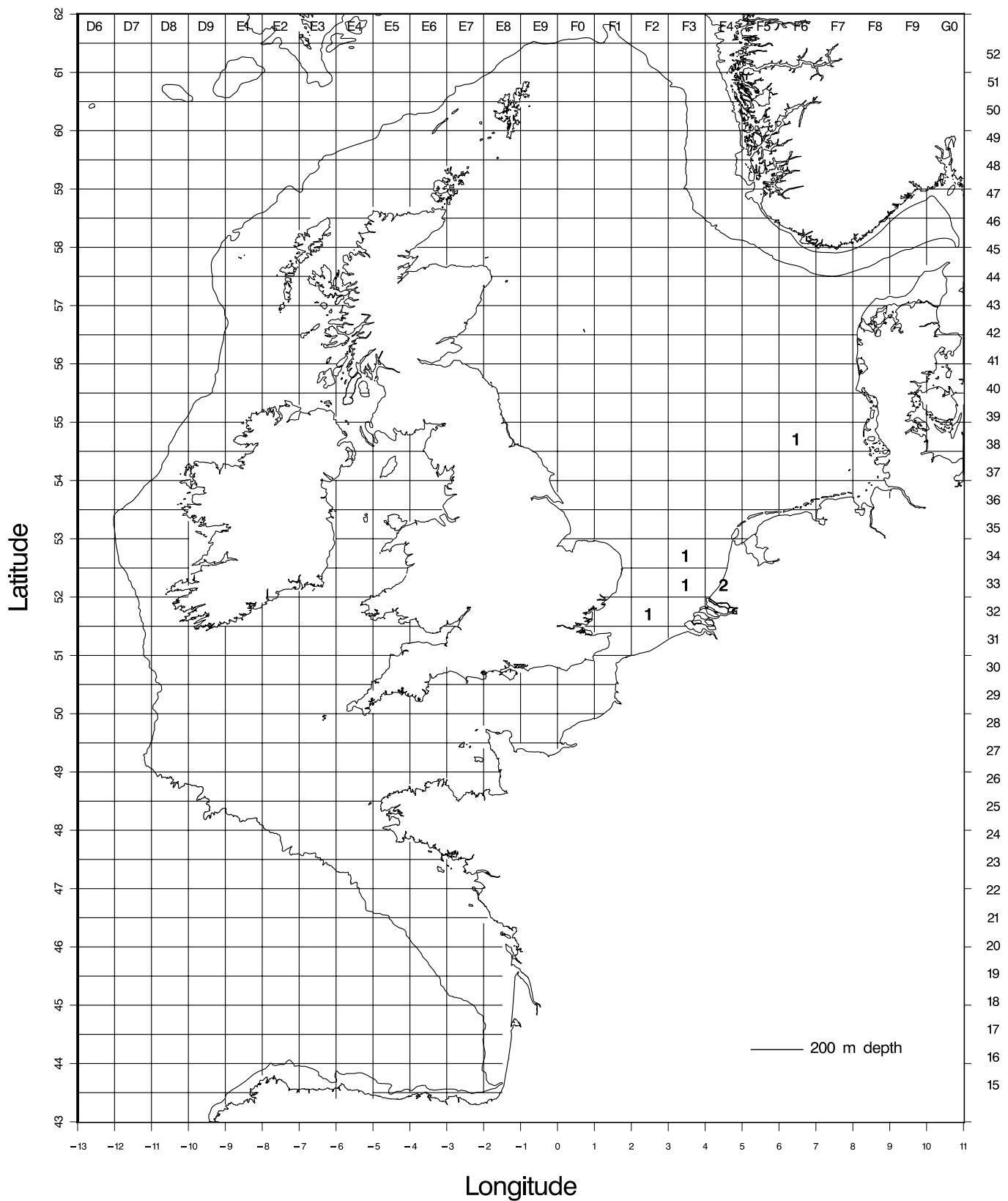


Figure 6h: Dab quarter 4 2005

Number of length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

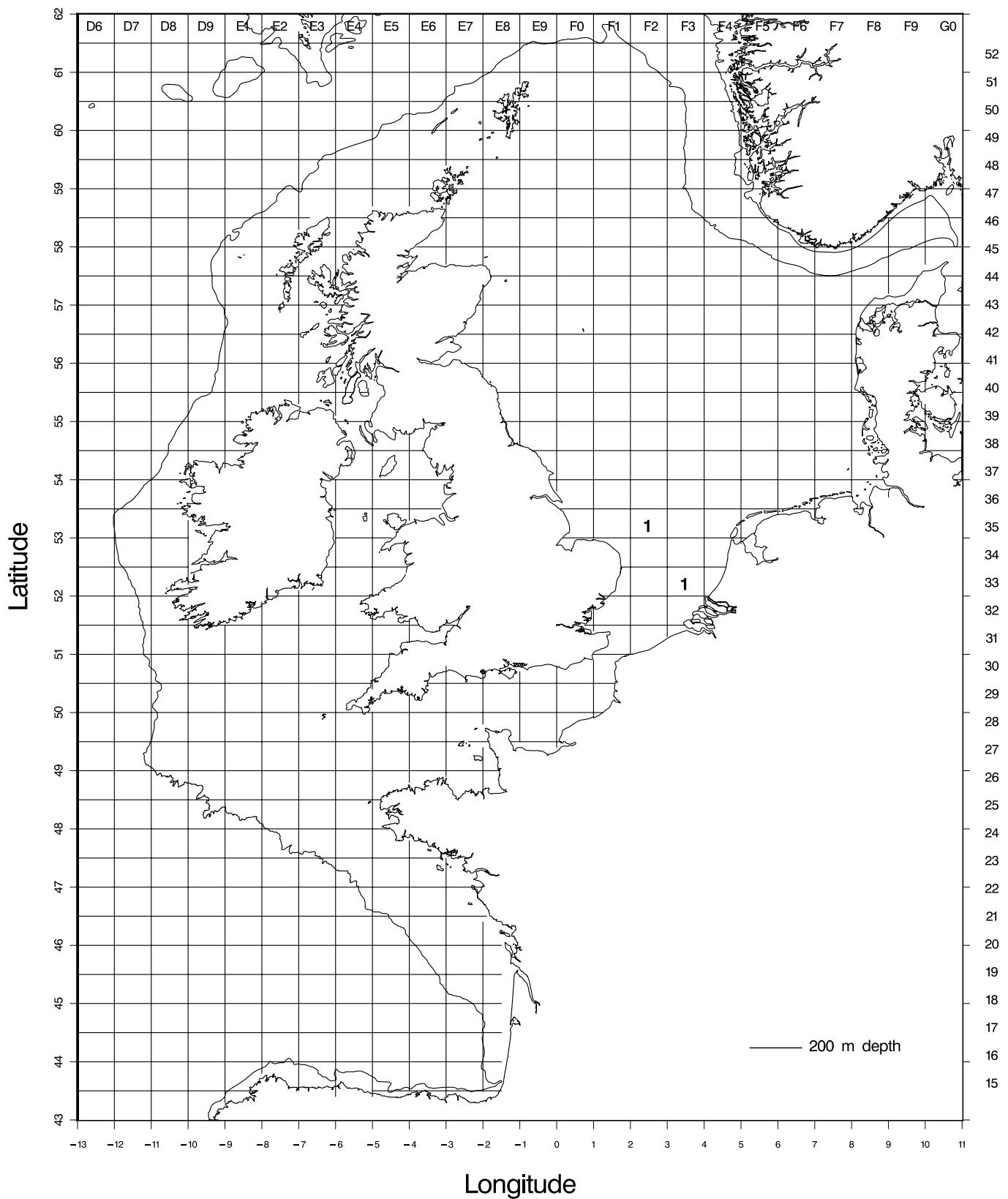


Figure 7a: Lemon sole quarter 1 2005

Number of age/length samples of commercial catches per ICES rectangle

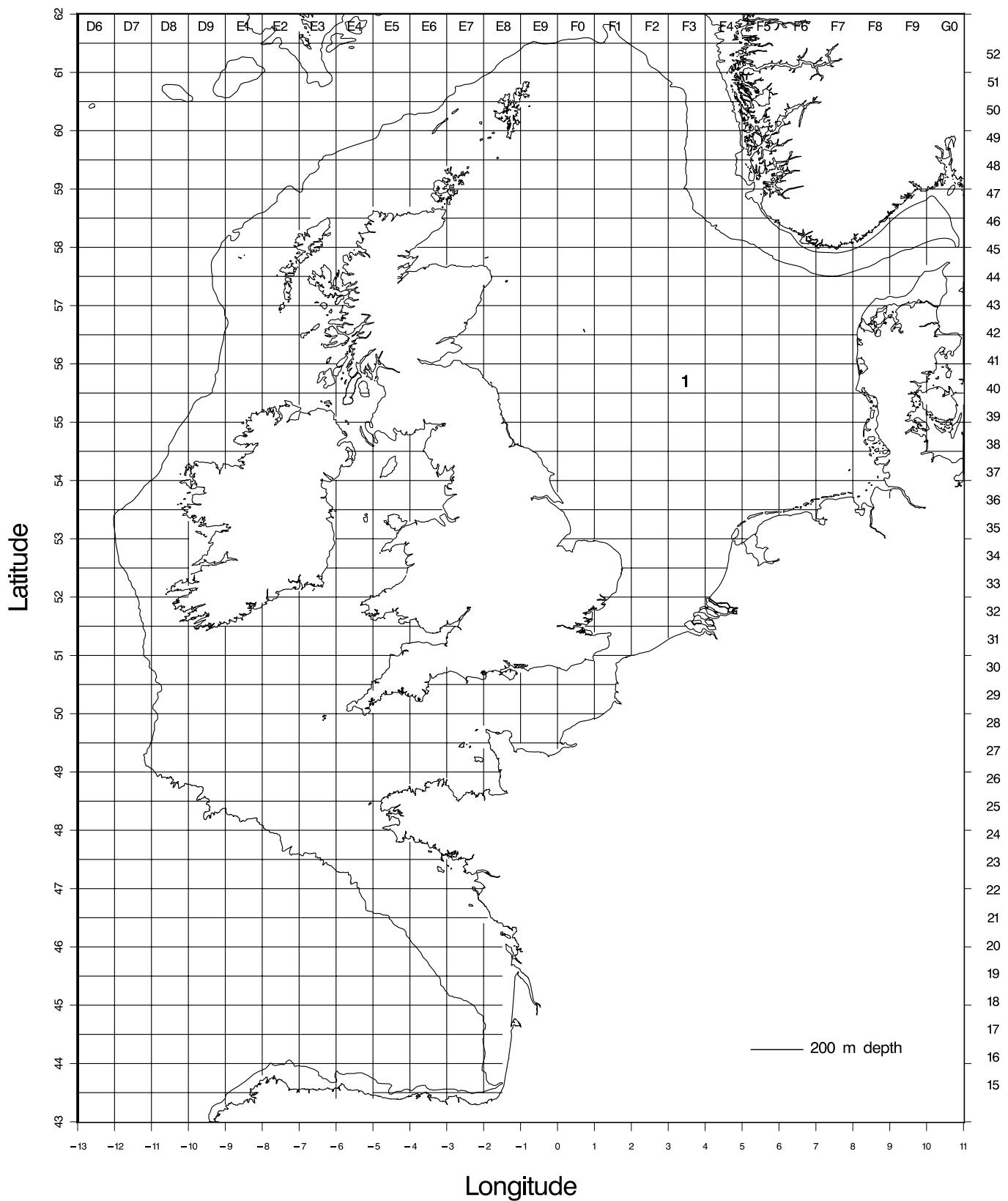


Figure 7b: Lemon sole quarter 2 2005
Number of age/length samples of commercial catches per ICES rectangle

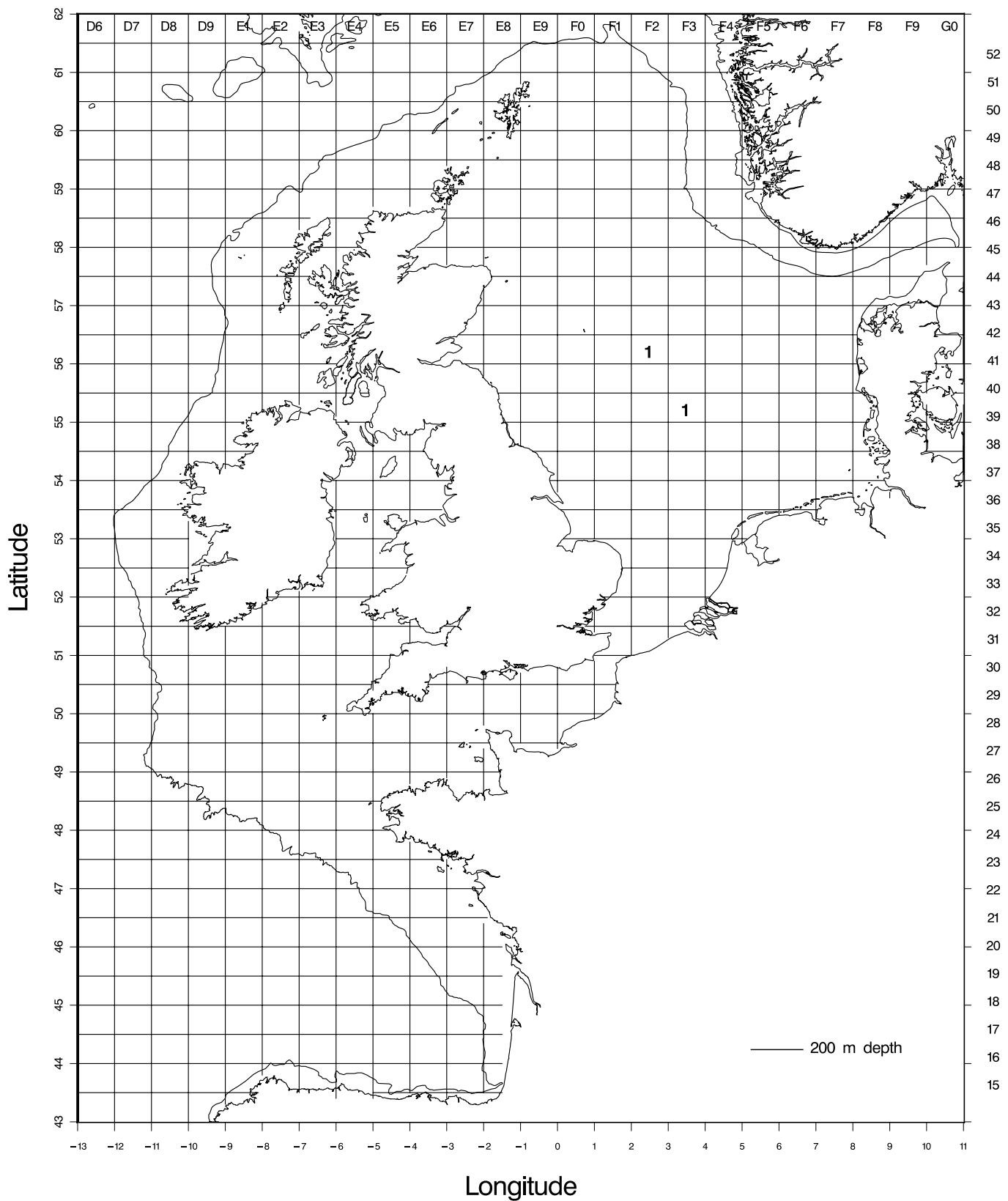


Figure 7c: Lemon sole quarter 3 2005
Number of age/length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

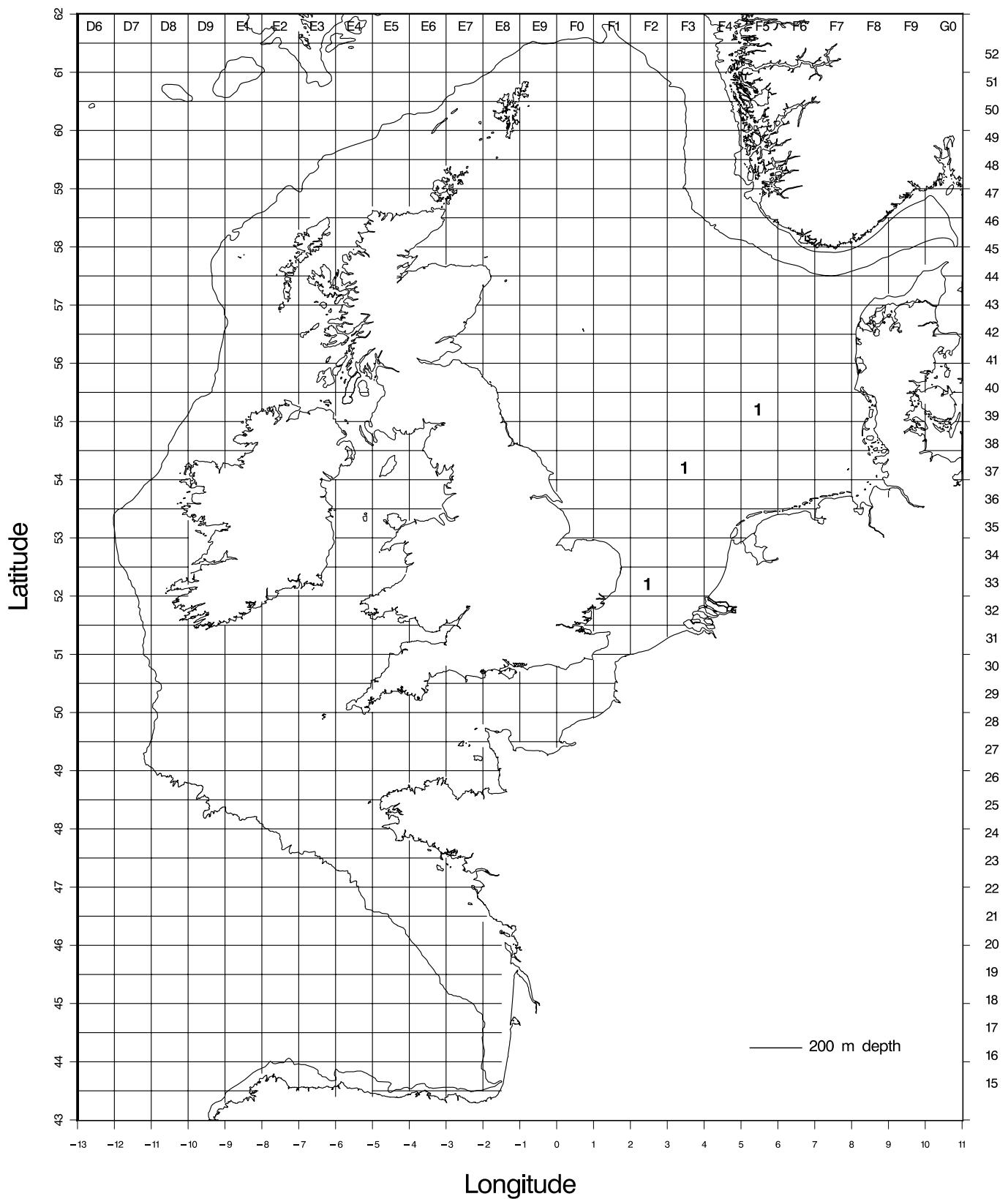


Figure 7d: Lemon sole quarter 4 2005

Number of age/length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

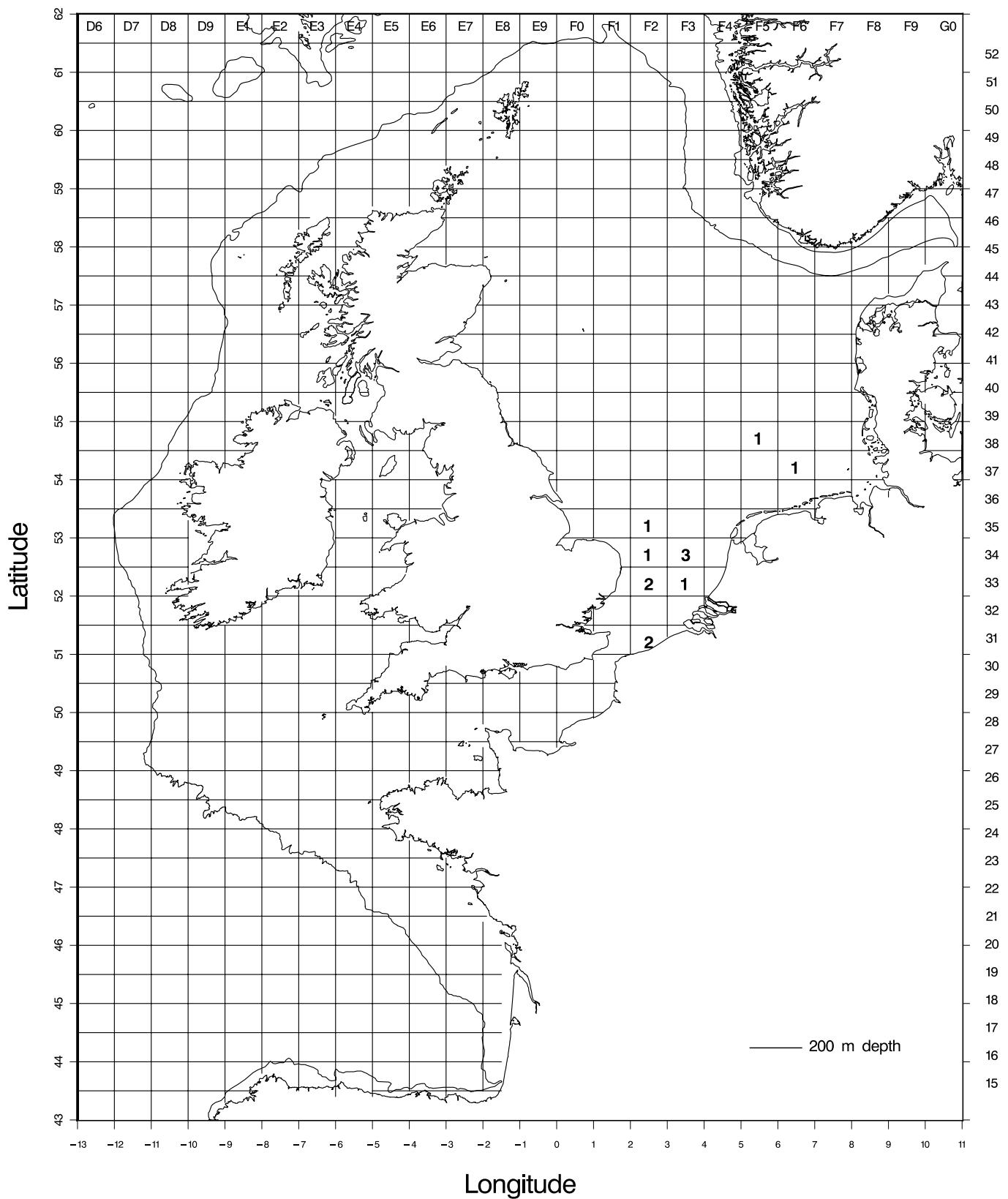


Figure 8a: Cod quarter 1 2005

Number of age samples of commercial catches per ICES rectangle

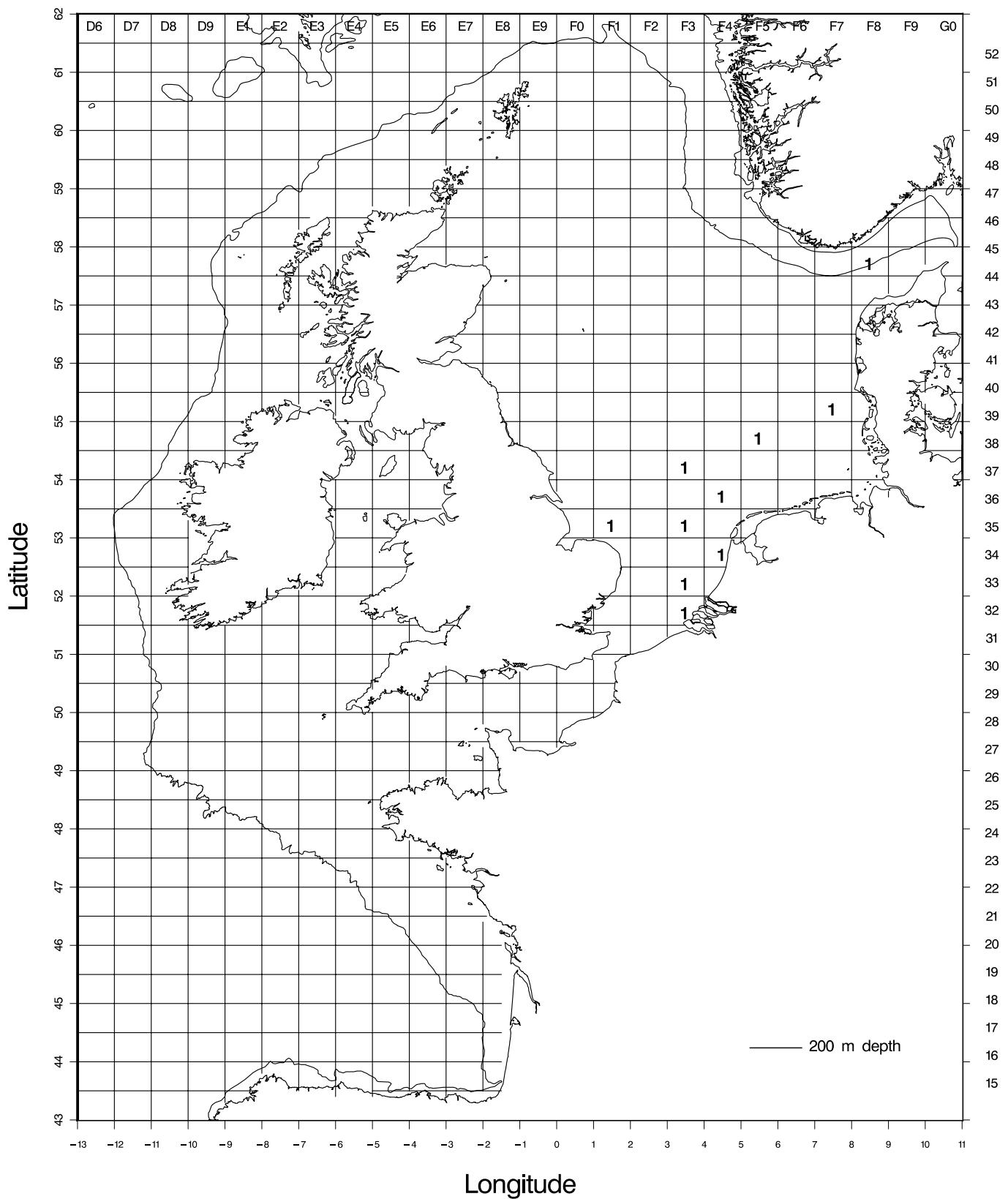


Figure 8b: Cod quarter 2 2005

Number of age samples of commercial catches per ICES rectangle

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Overview of samples
Generated: 16NOV2007 10:33:16

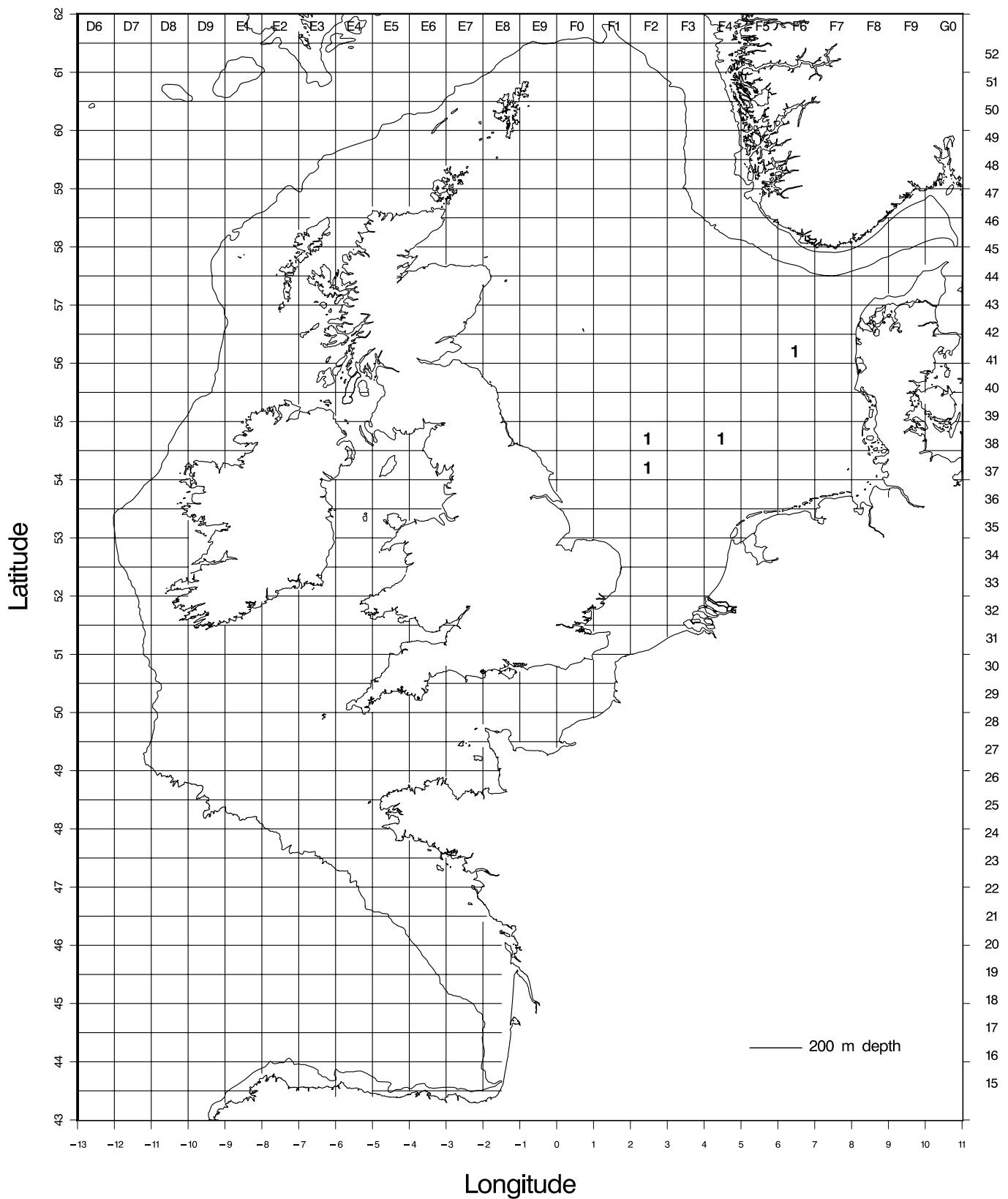


Figure 8c: Cod quarter 3 2005

Number of age samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

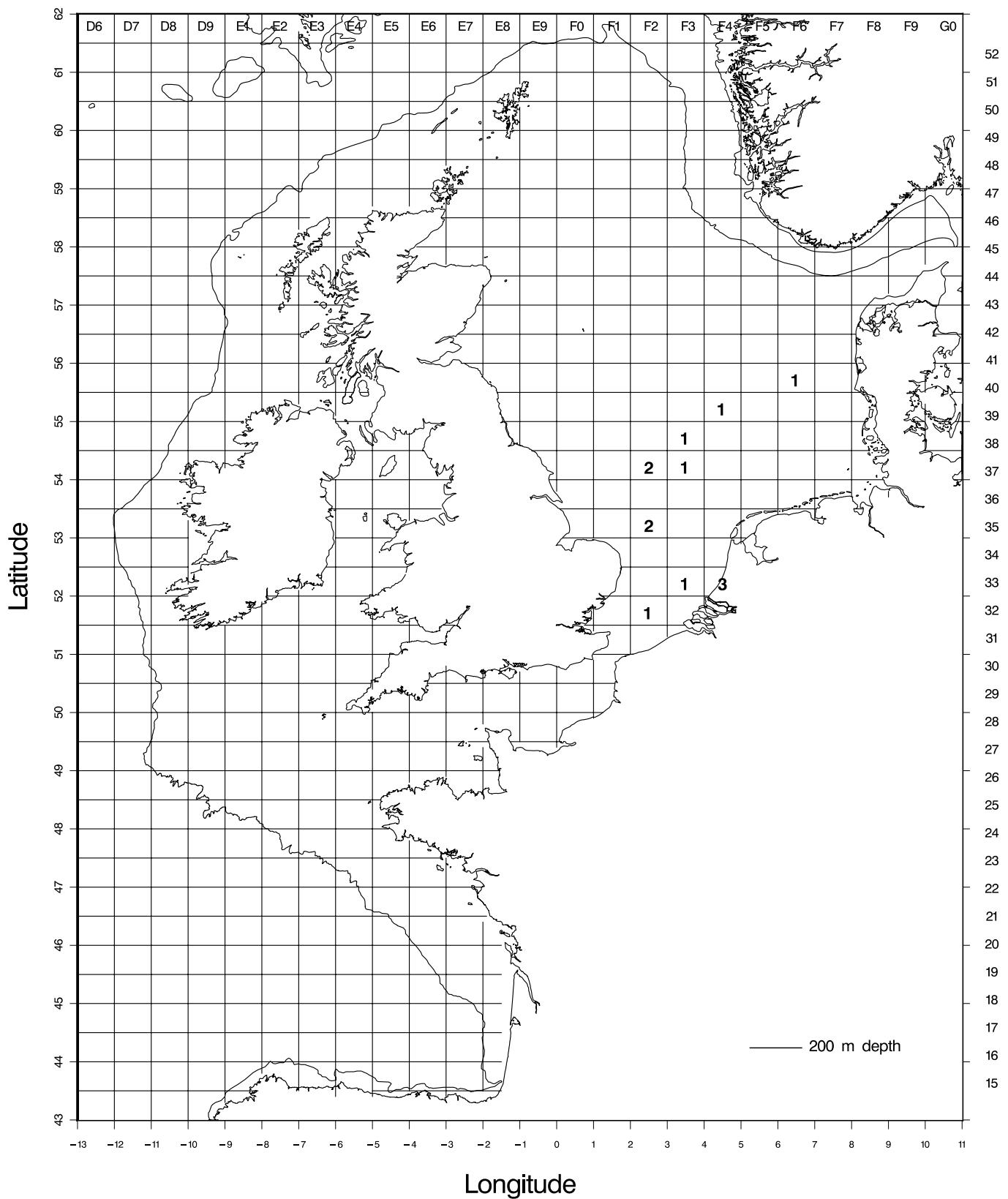


Figure 8d: Cod quarter 4 2005

Number of age samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

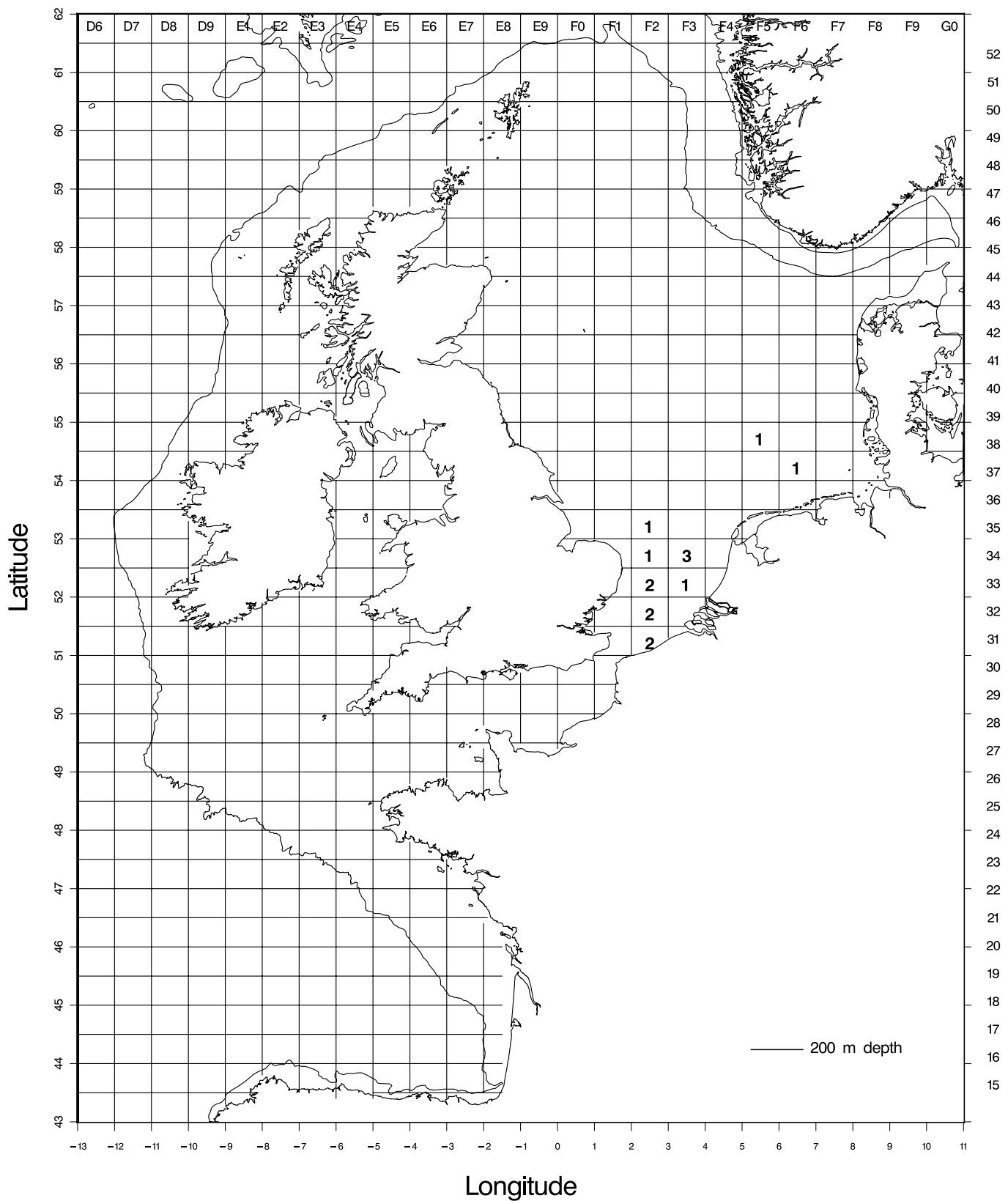


Figure 8e: Cod quarter 1 2005

Number of length samples of commercial catches per ICES rectangle

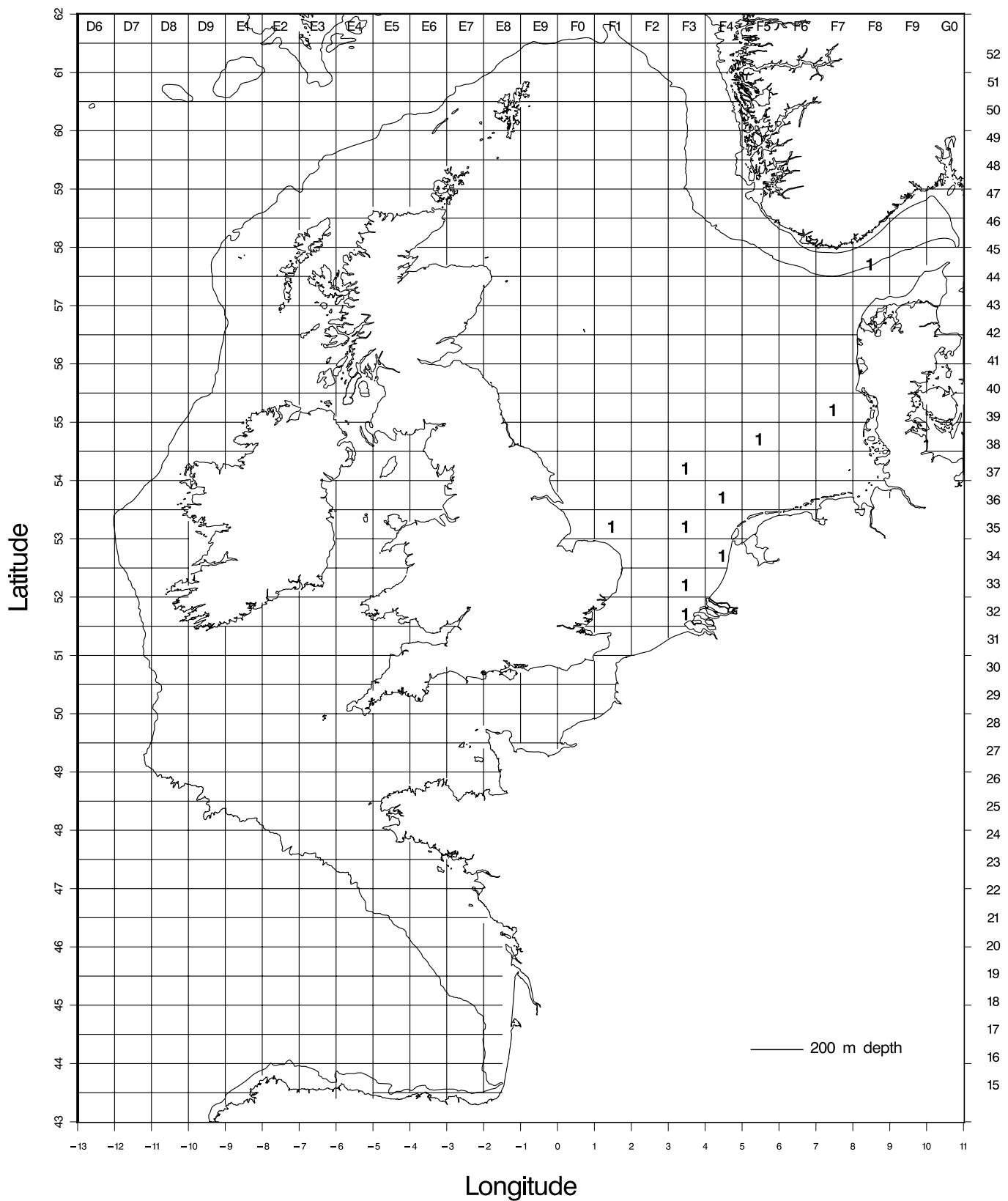


Figure 8f: Cod quarter 2 2005

Number of length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

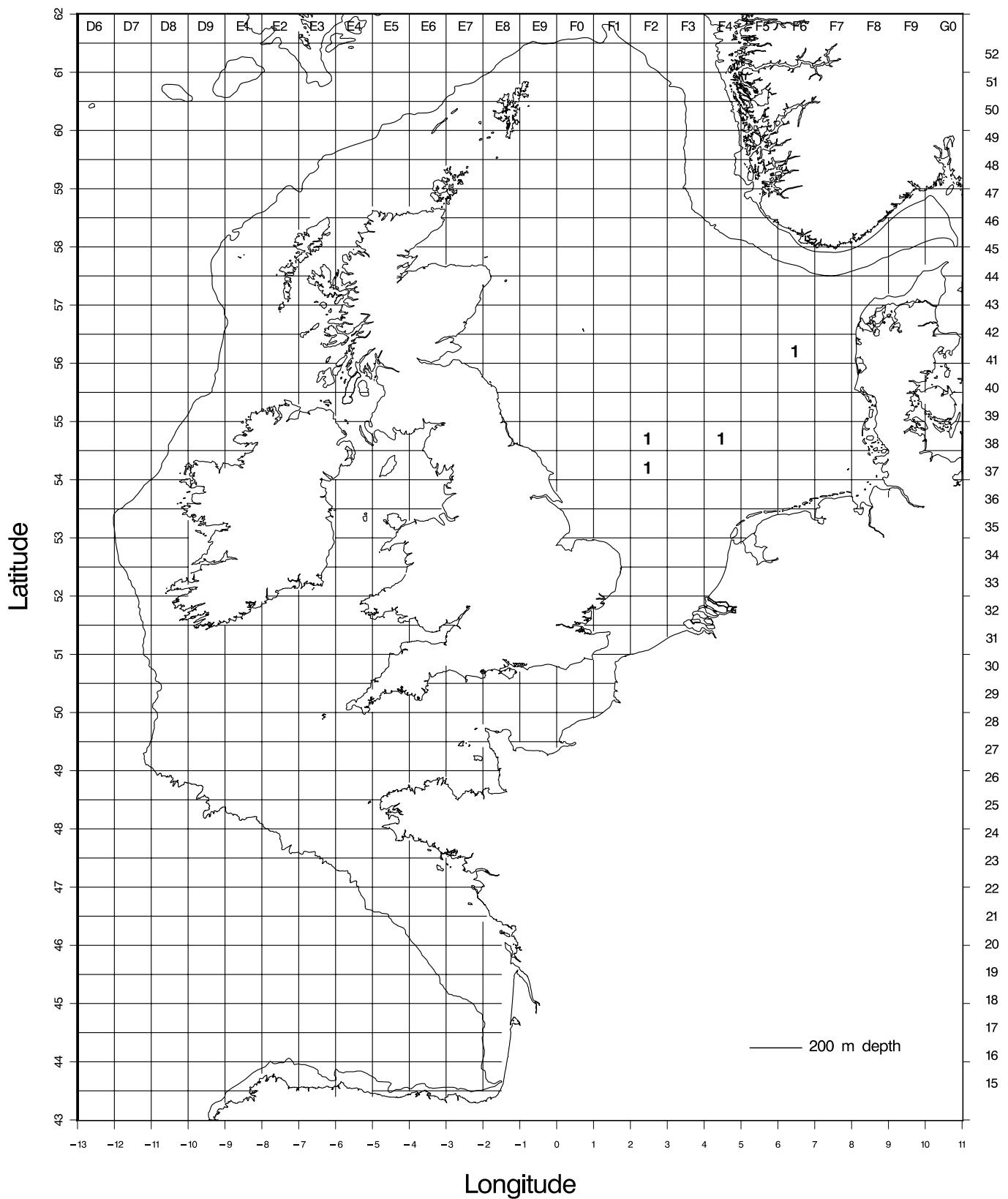


Figure 8g: Cod quarter 3 2005

Number of length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

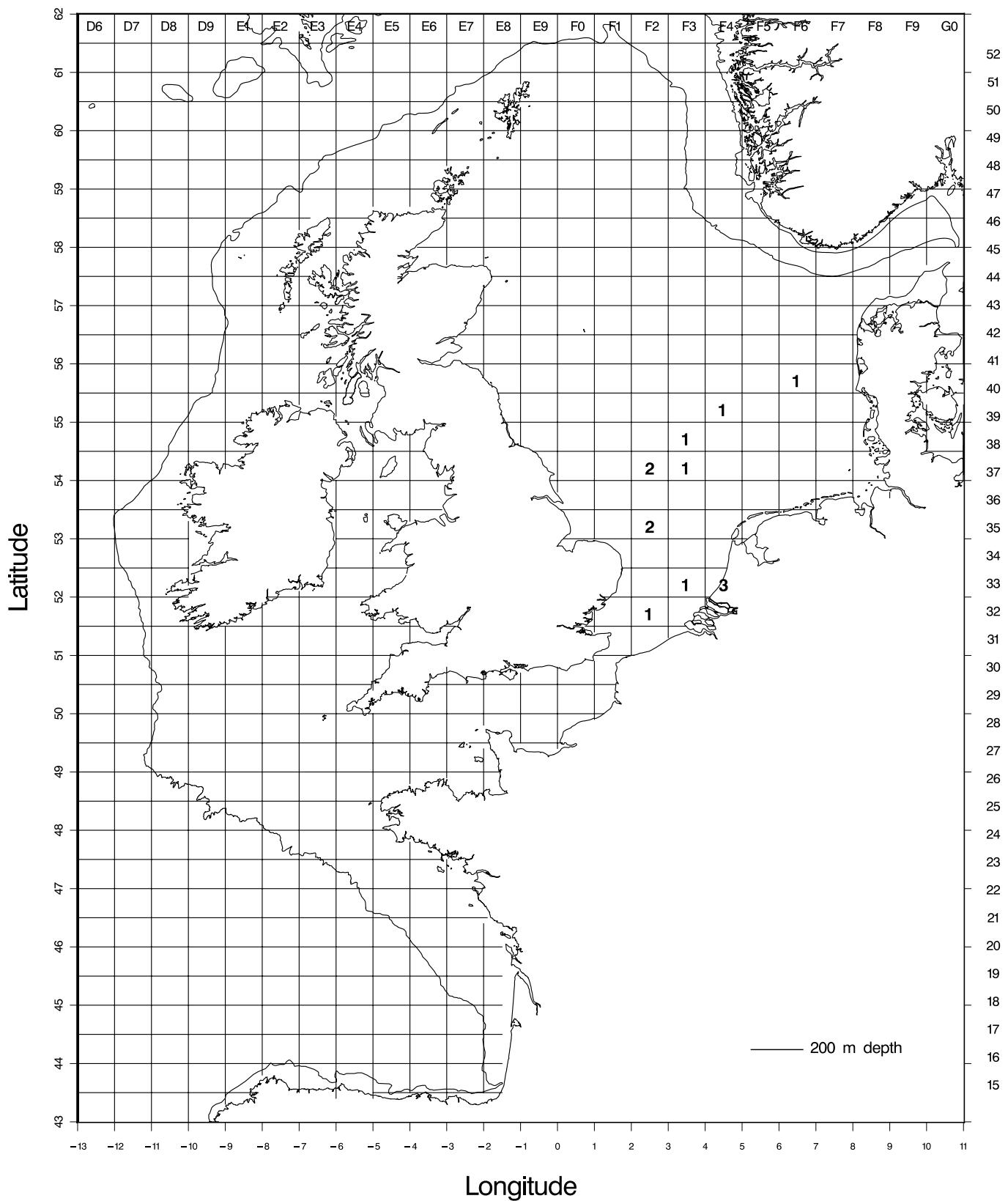


Figure 8h: Cod quarter 4 2005

Number of length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

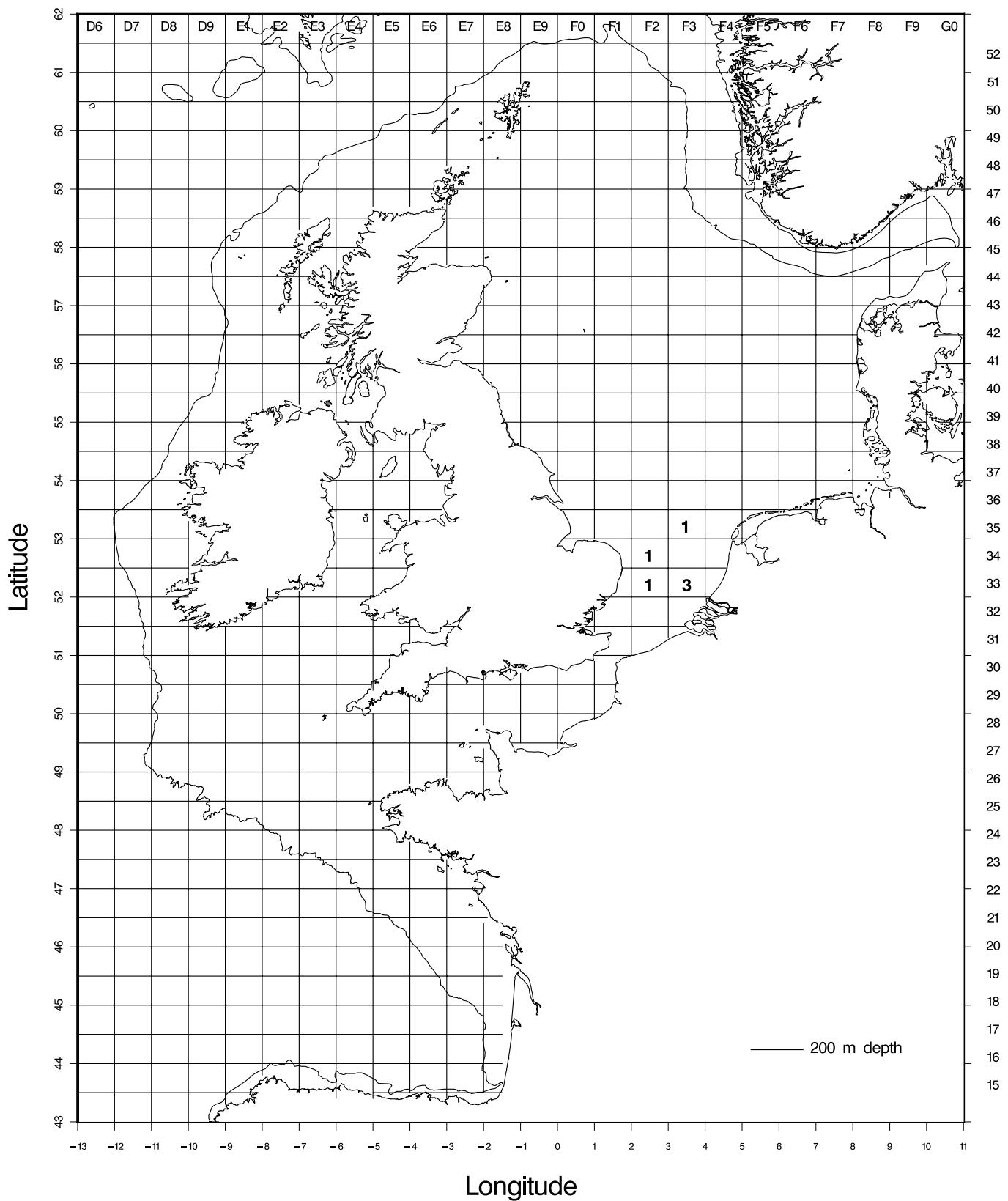


Figure 9a: Whiting quarter 1 2005

Number of age samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
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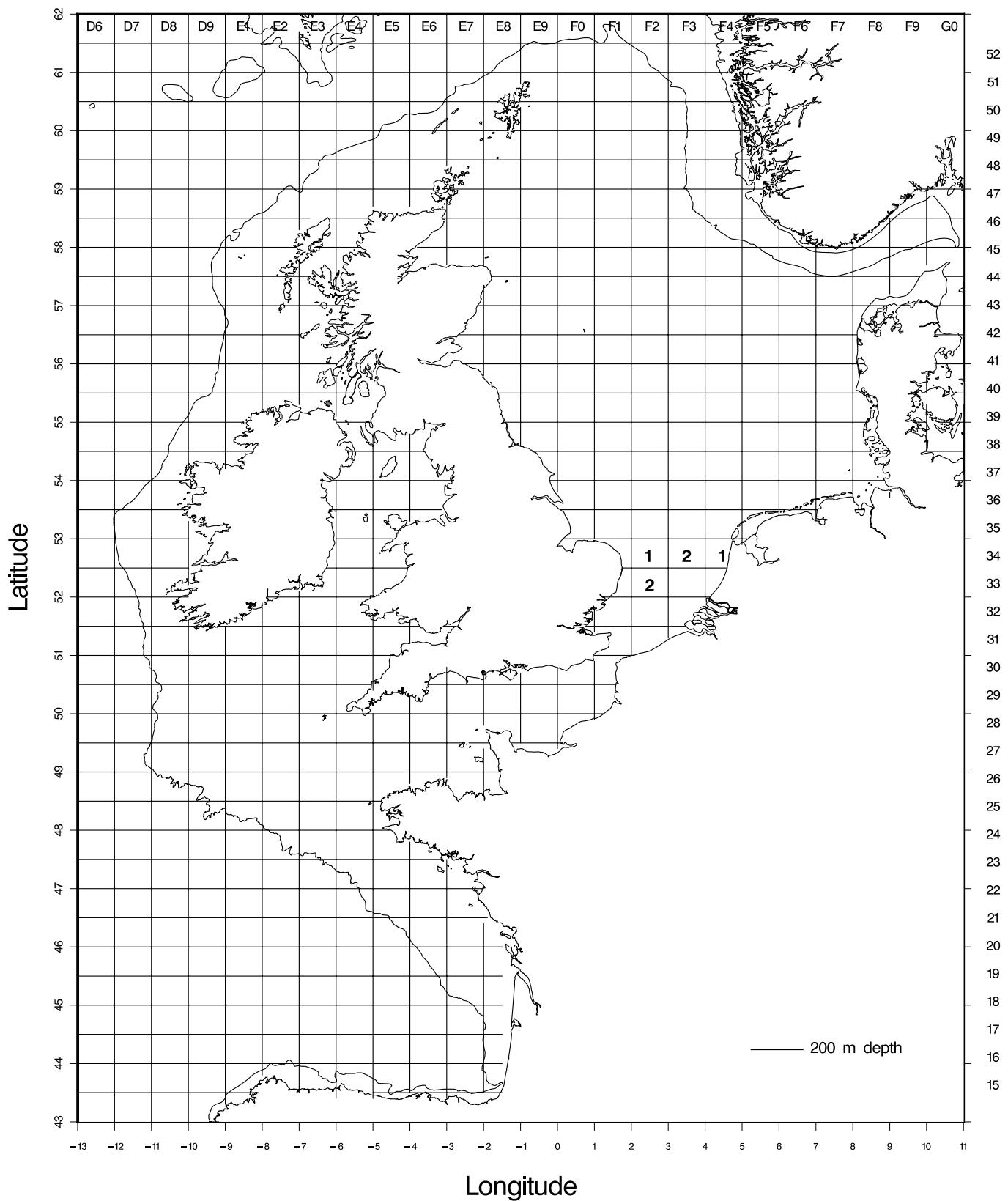


Figure 9b: Whiting quarter 2 2005

Number of age samples of commercial catches per ICES rectangle

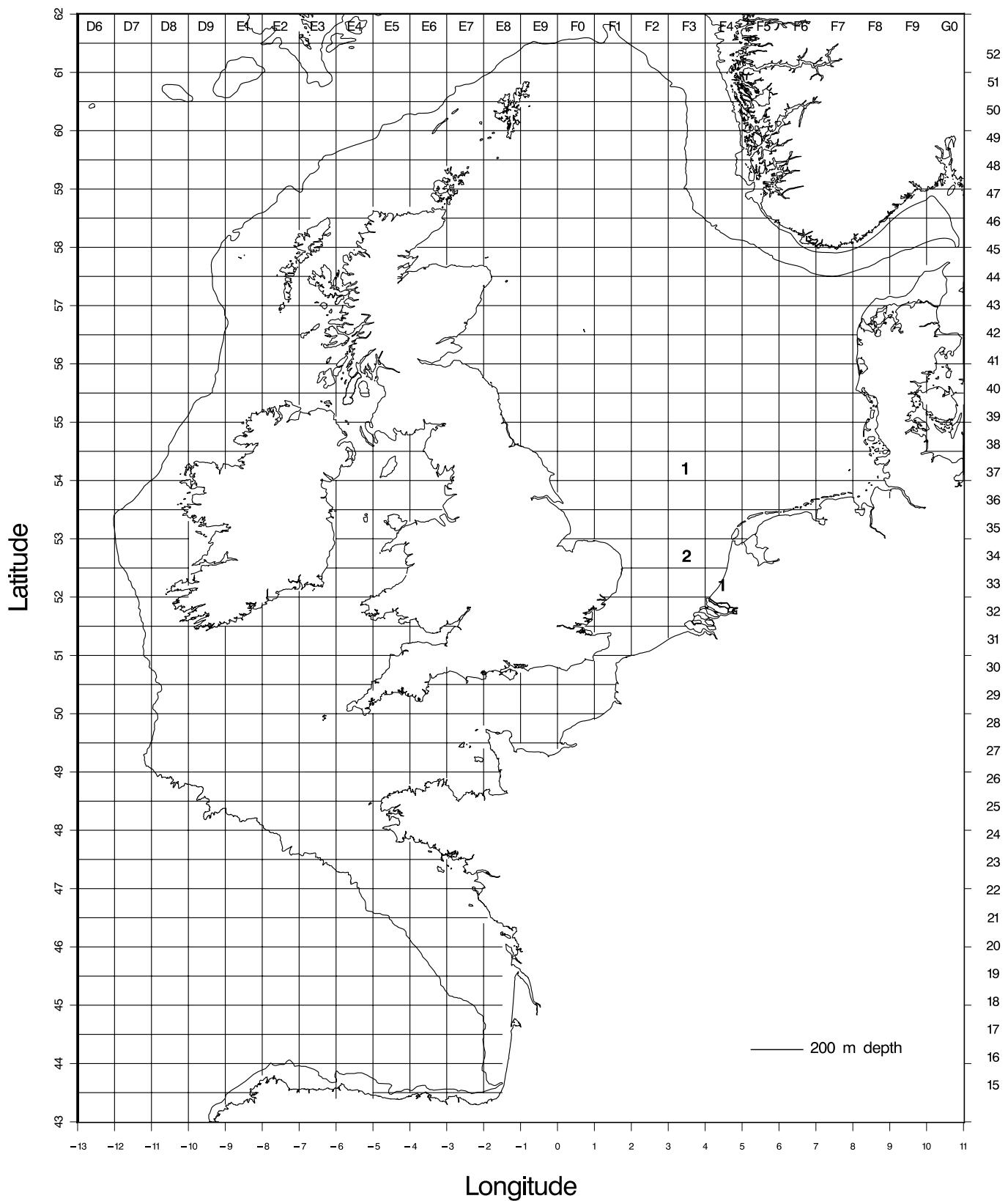


Figure 9c: Whiting quarter 3 2005

Number of age samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
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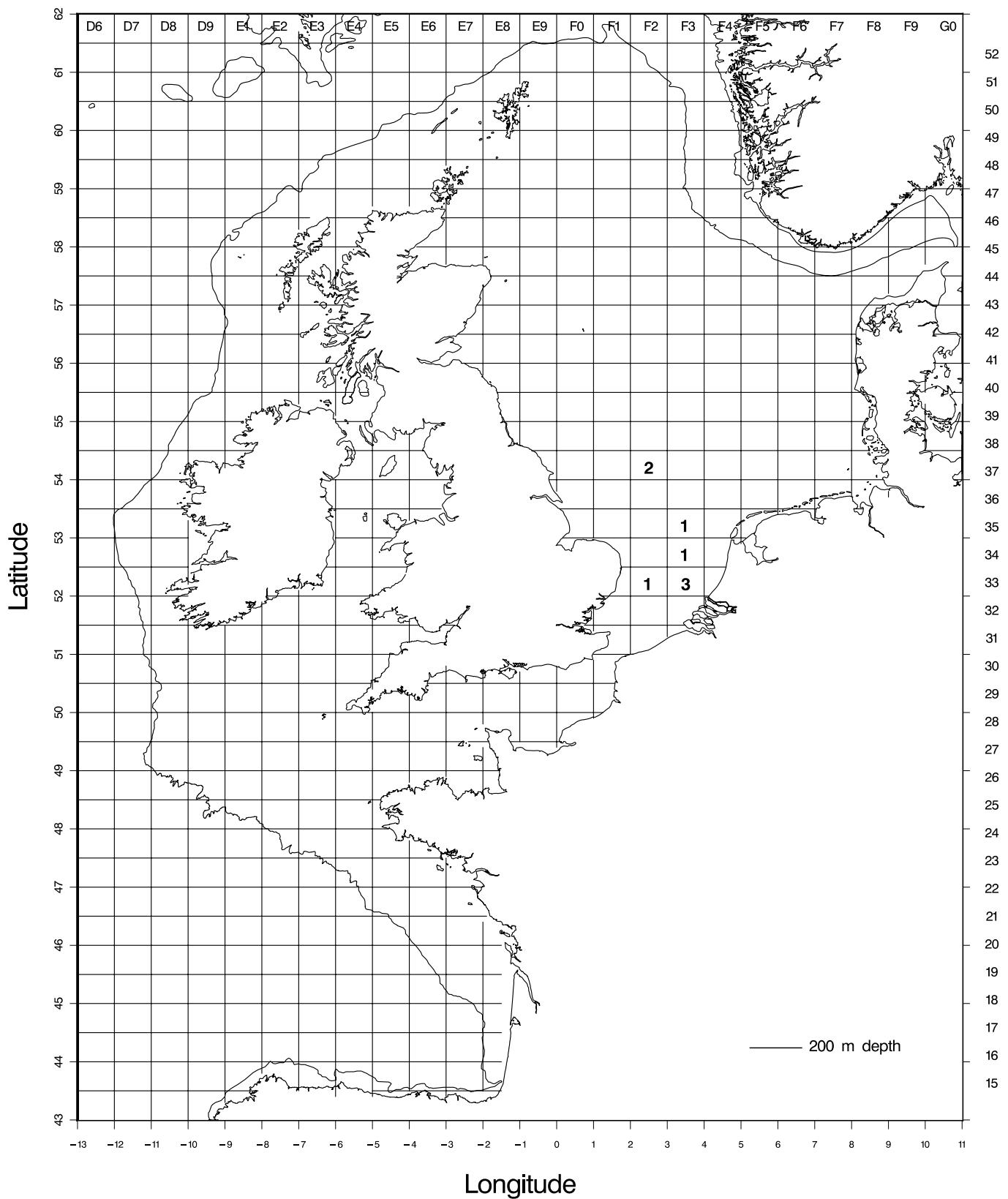


Figure 9d: Whiting quarter 4 2005

Number of age samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
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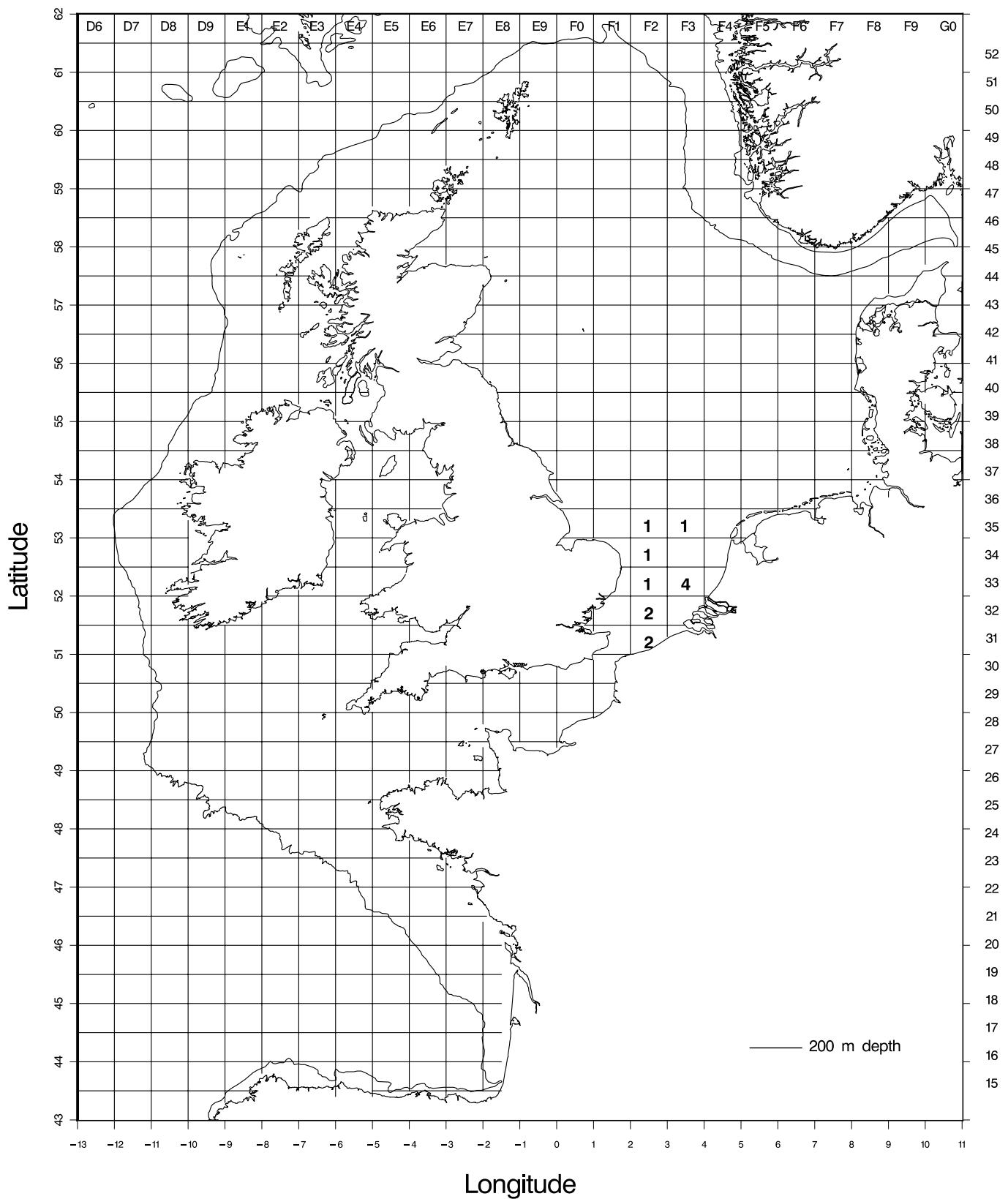


Figure 9e: Whiting quarter 1 2005

Number of length samples of commercial catches per ICES rectangle

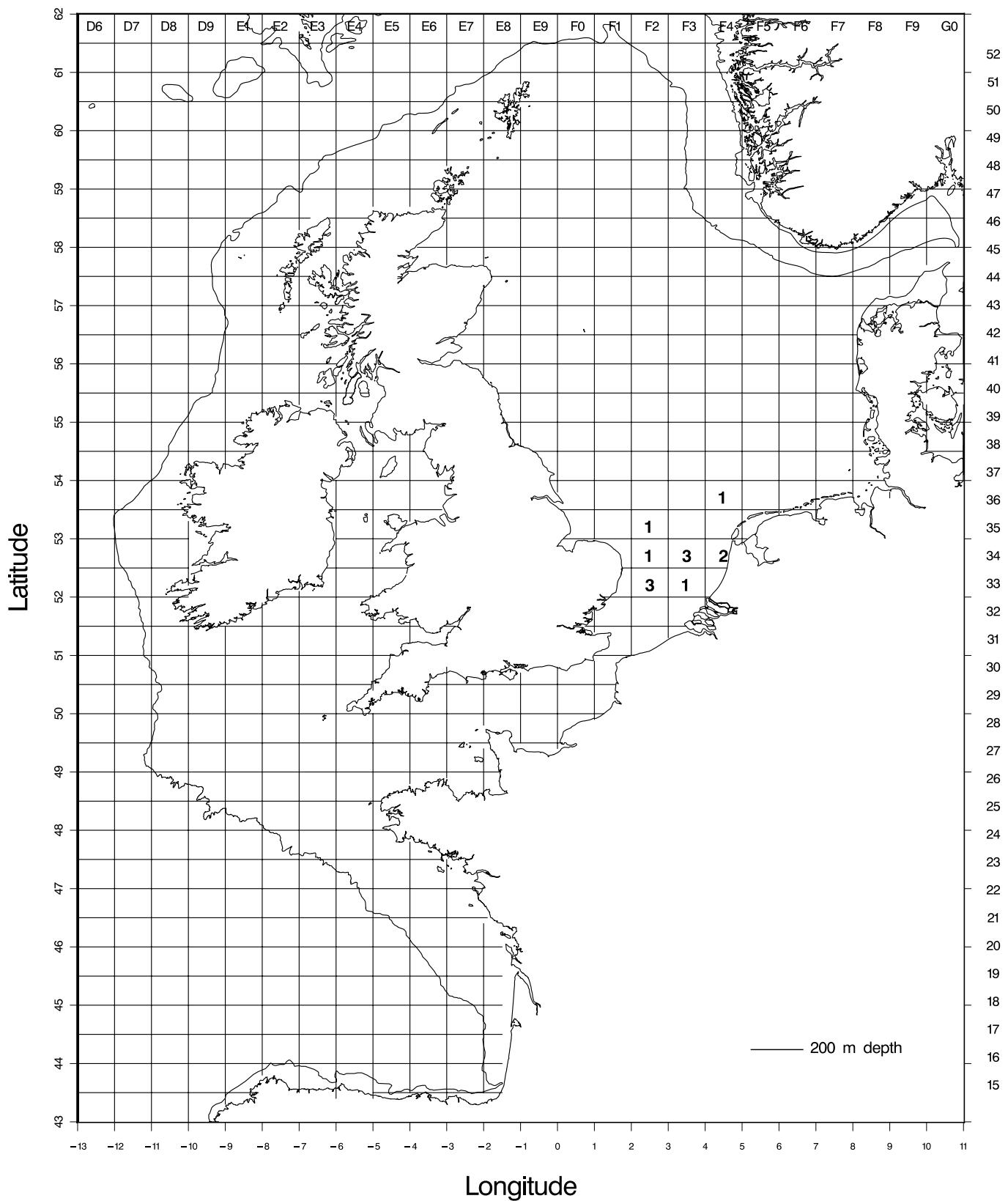


Figure 9f: Whiting quarter 2 2005

Number of length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

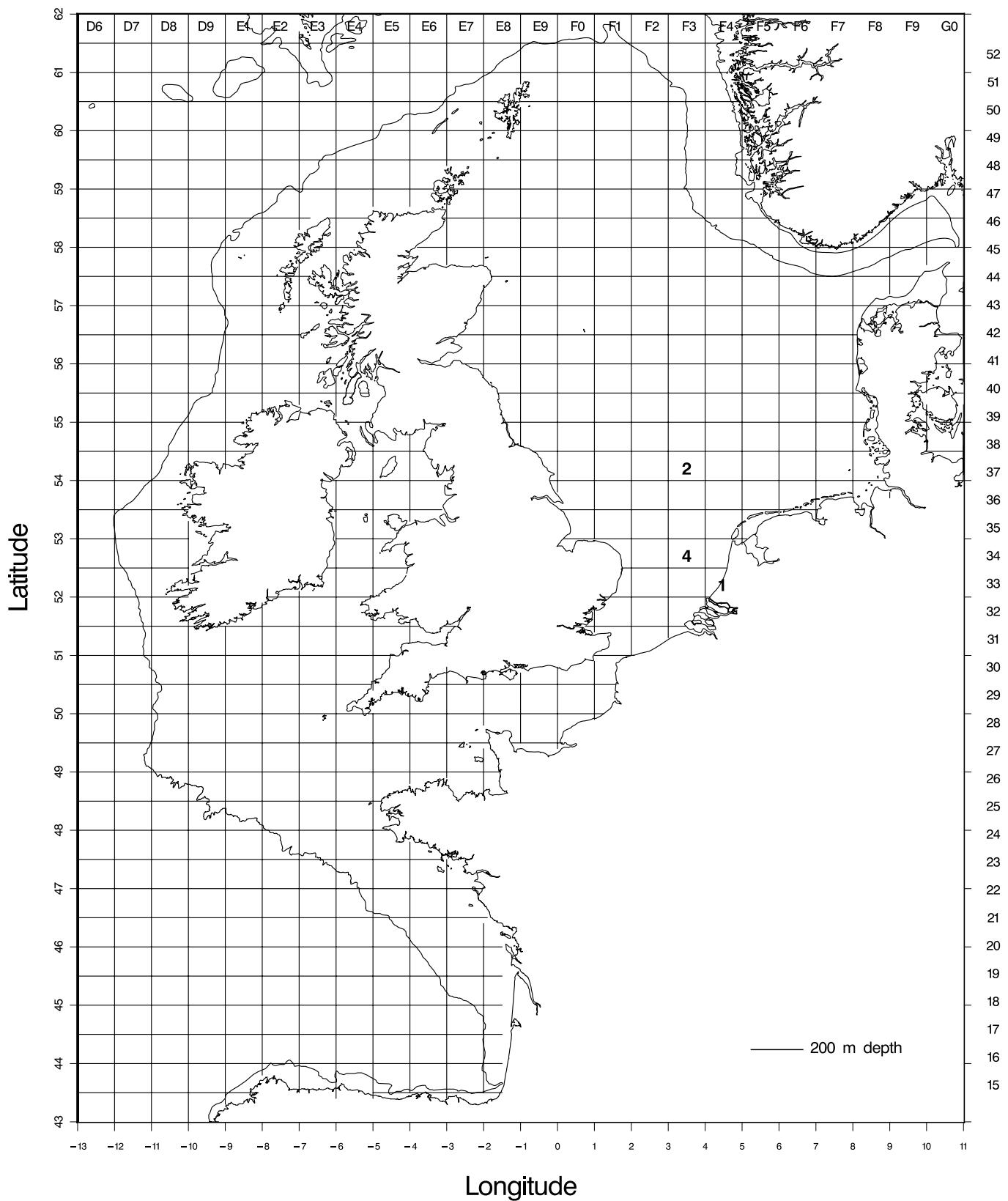


Figure 9g: Whiting quarter 3 2005

Number of length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

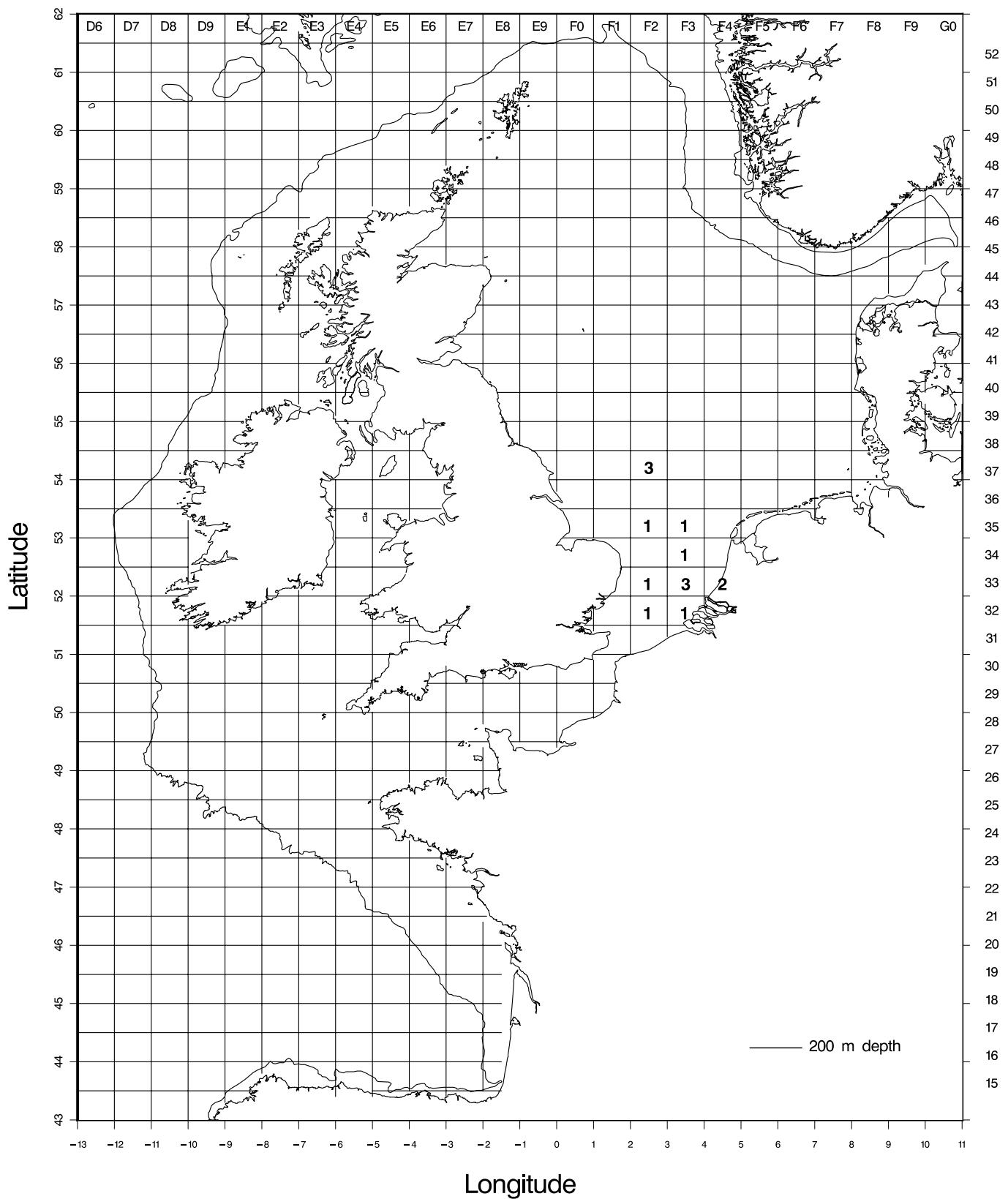


Figure 9h: Whiting quarter 4 2005

Number of length samples of commercial catches per ICES rectangle

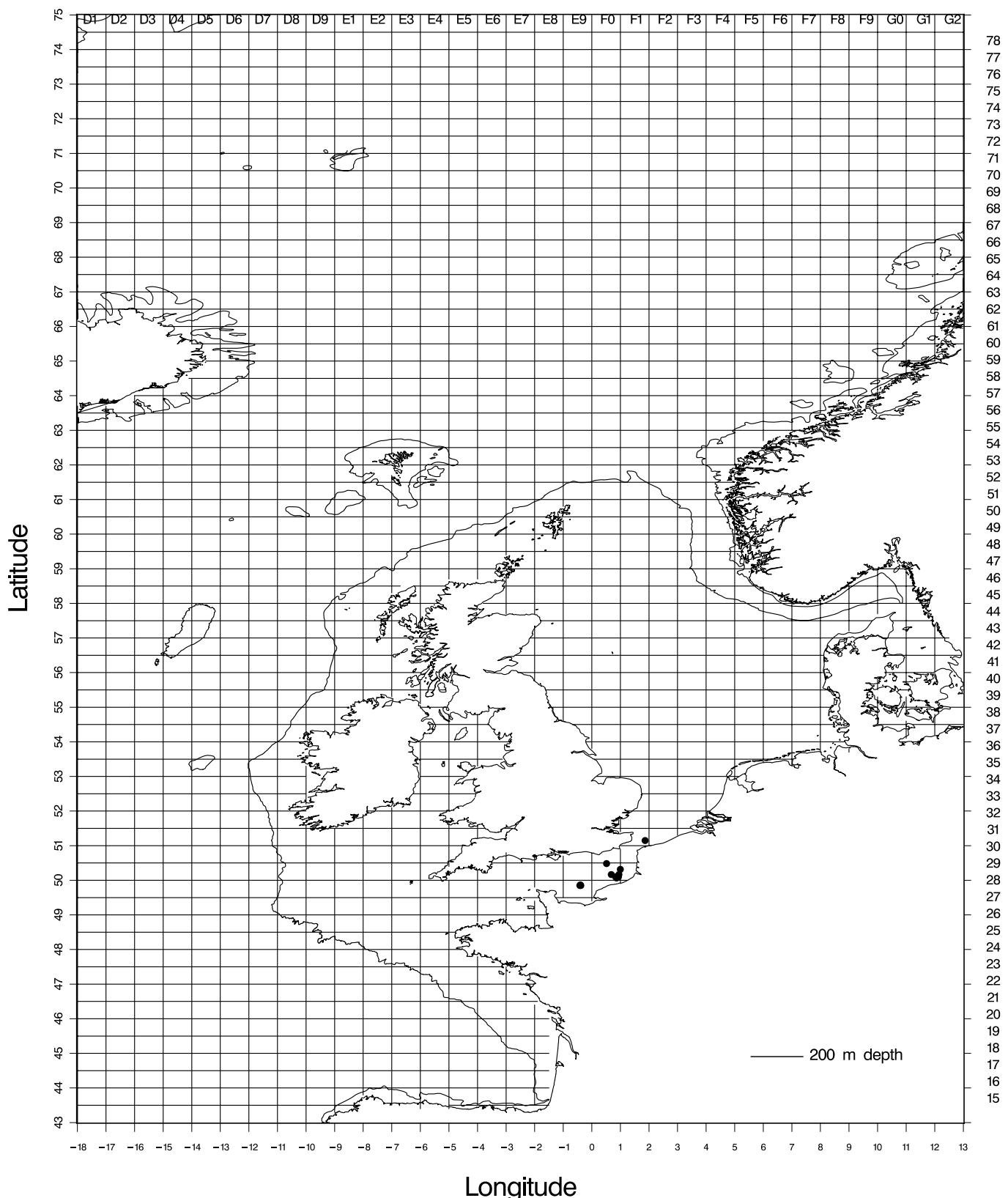


Figure 10a: Herring quarter 1 2005
Positions of age/length samples of commercial catches

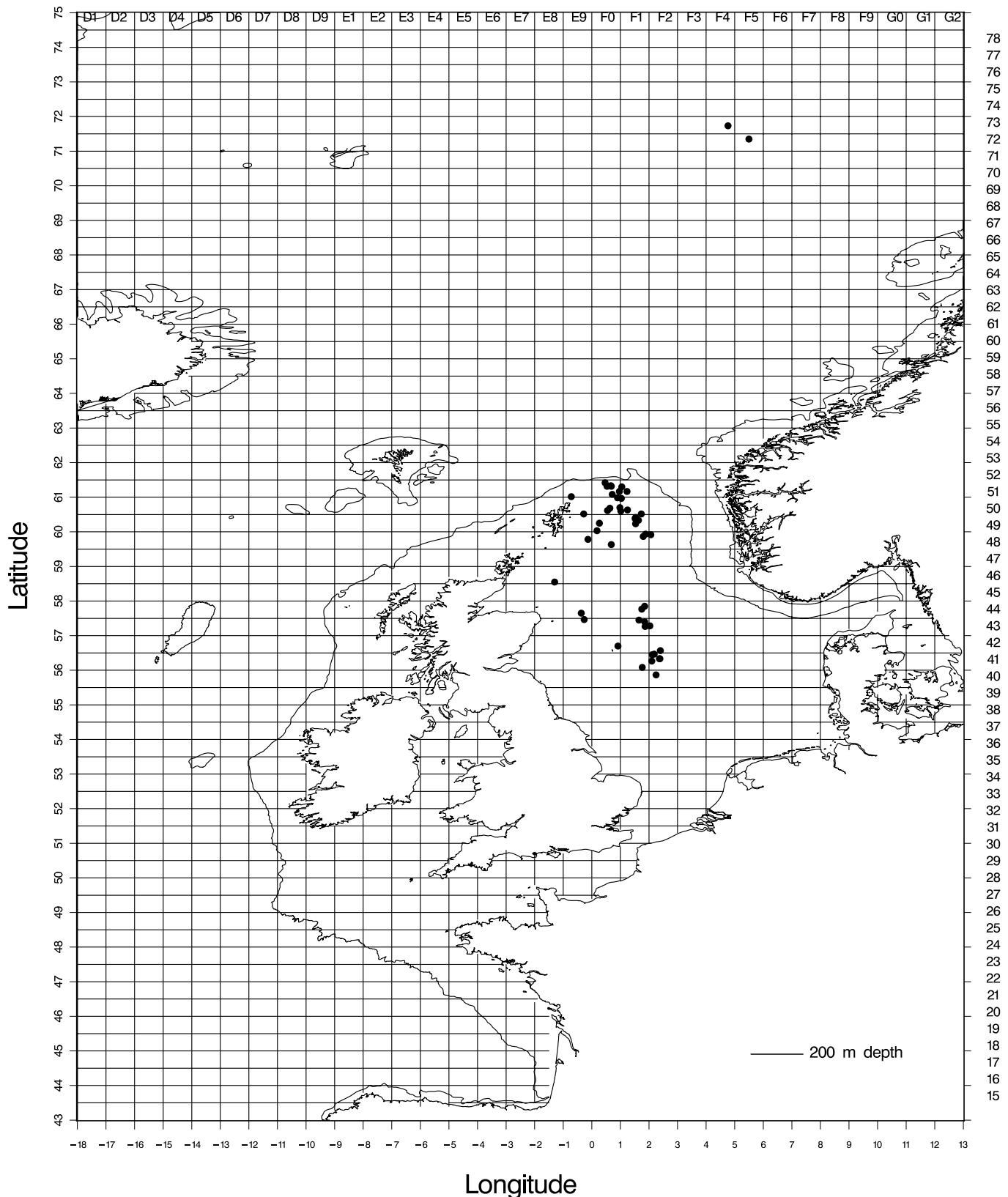


Figure 10b: Herring quarter 2 2005
Positions of age/length samples of commercial catches

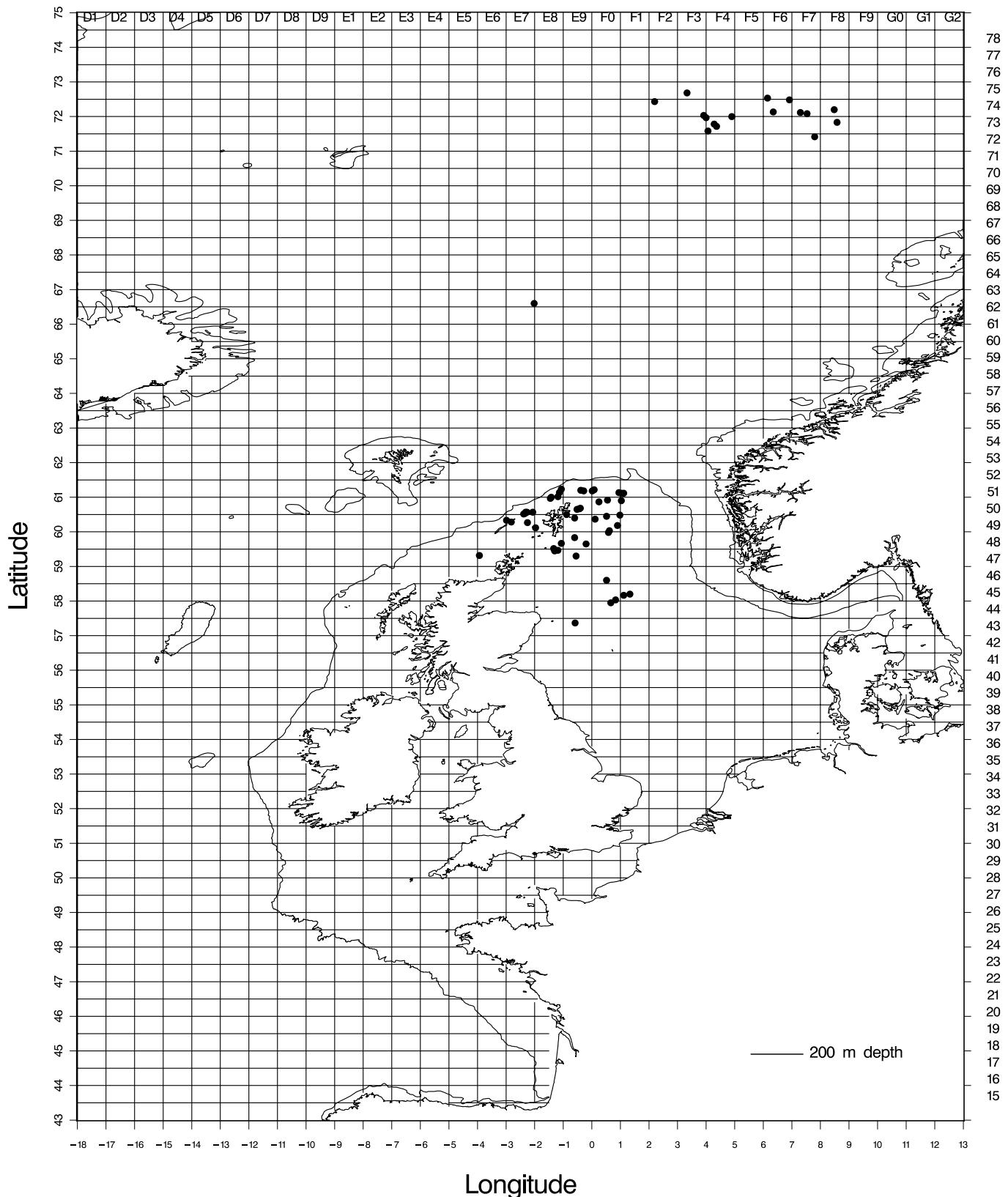


Figure 10c: Herring quarter 3 2005
Positions of age/length samples of commercial catches

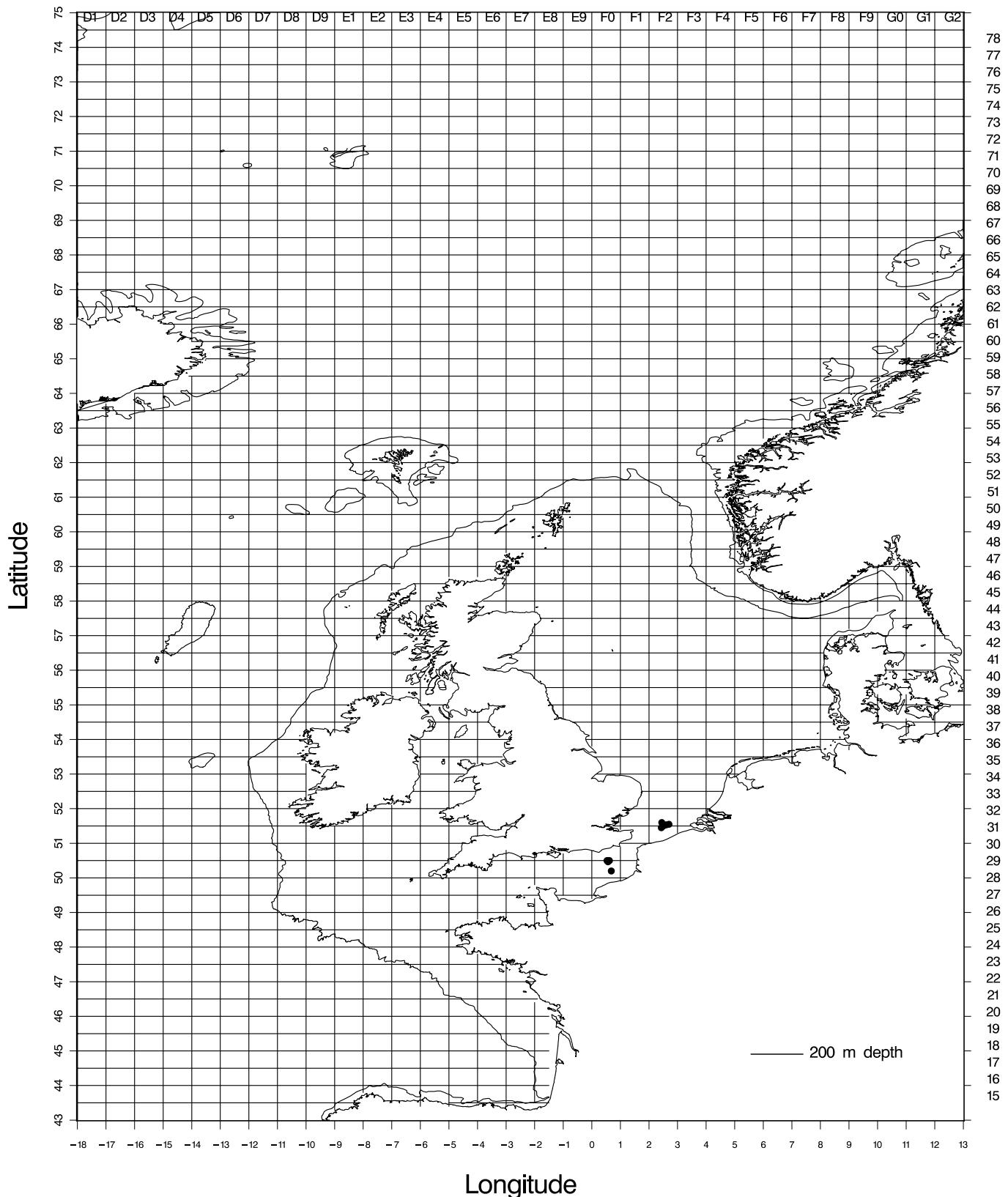


Figure 10d: Herring quarter 4 2005
Positions of age/length samples of commercial catches

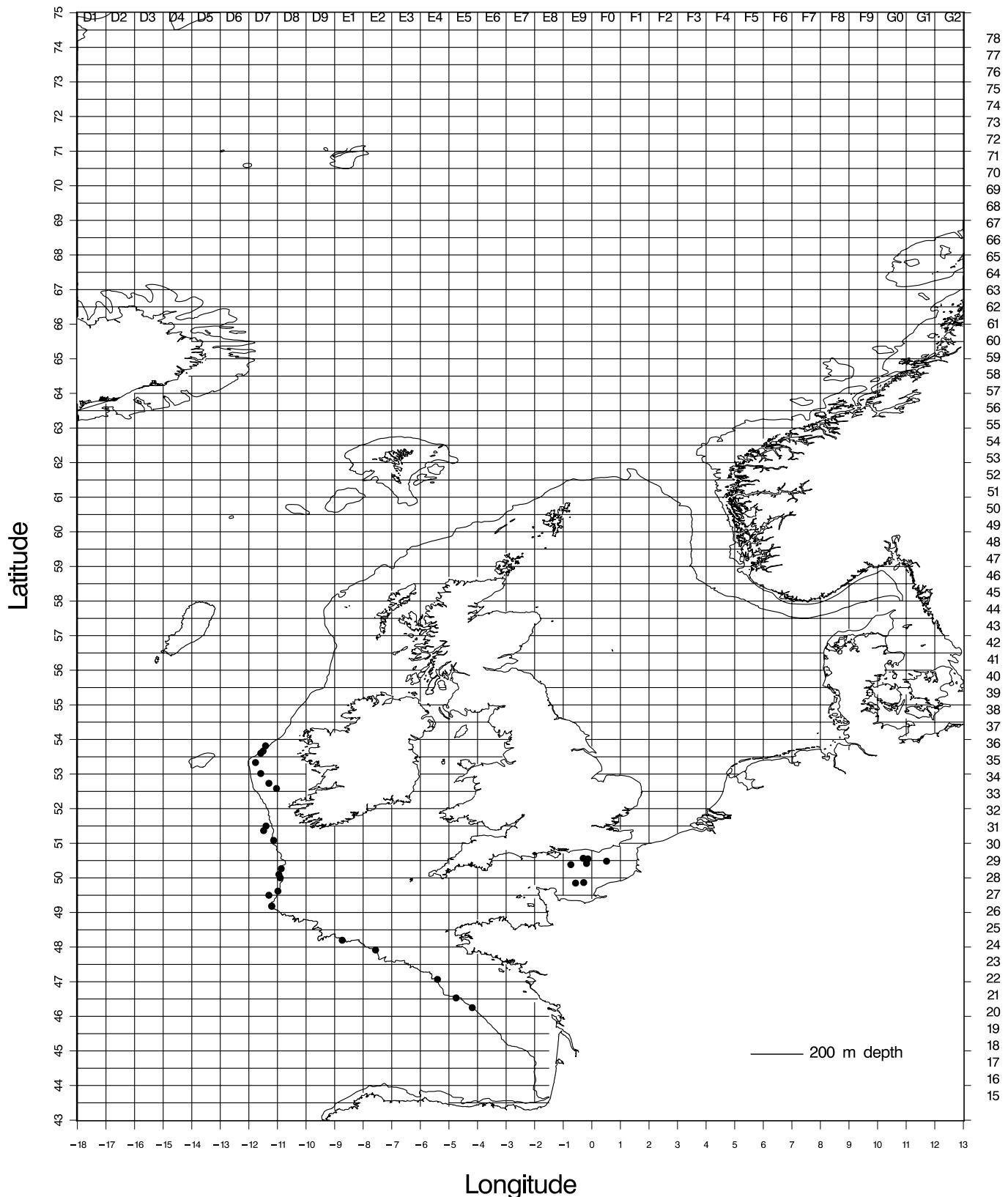


Figure 11a: Mackerel quarter 1 2005
Positions of age/length samples of commercial catches

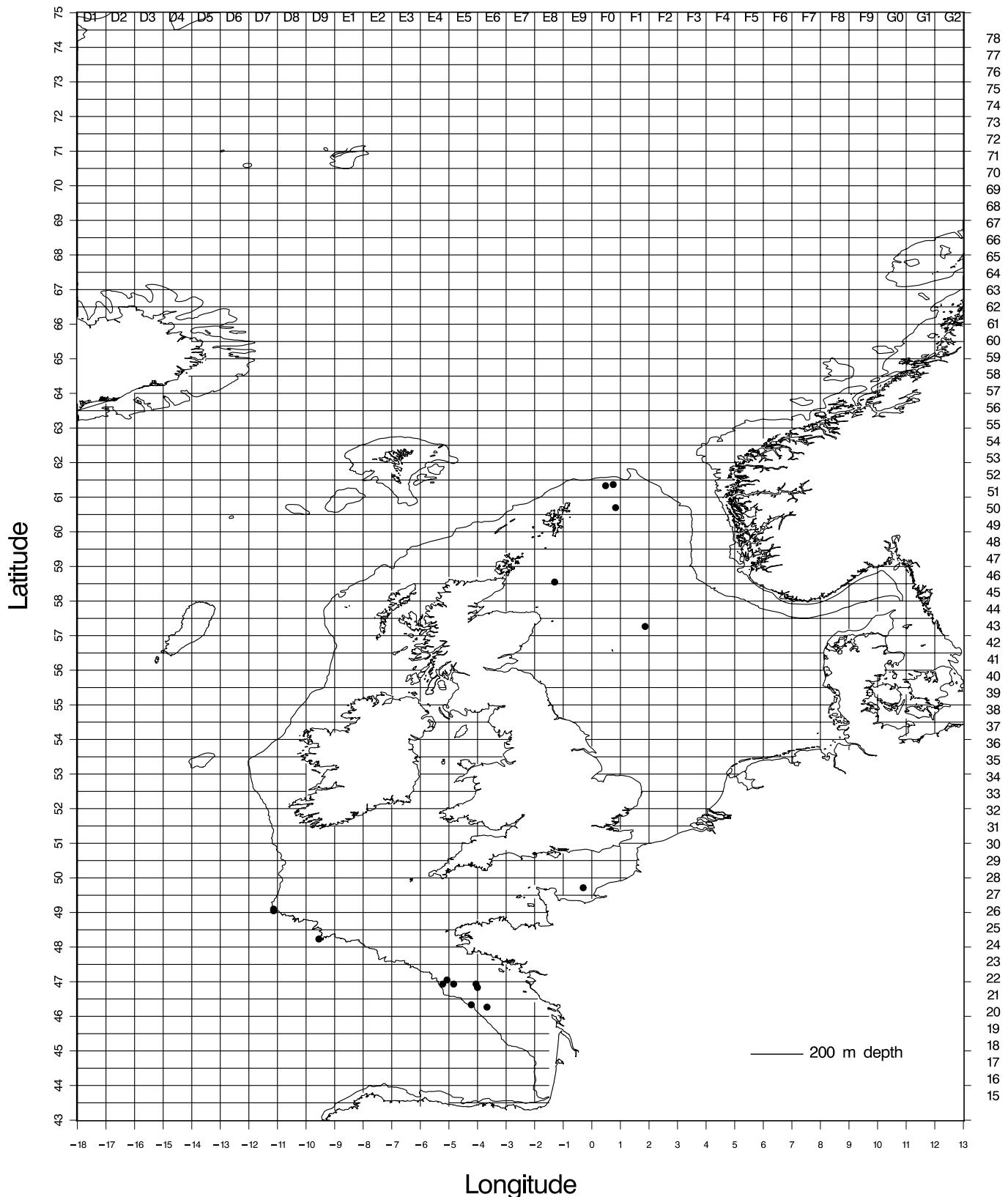


Figure 11b: Mackerel quarter 2 2005
Positions of age/length samples of commercial catches

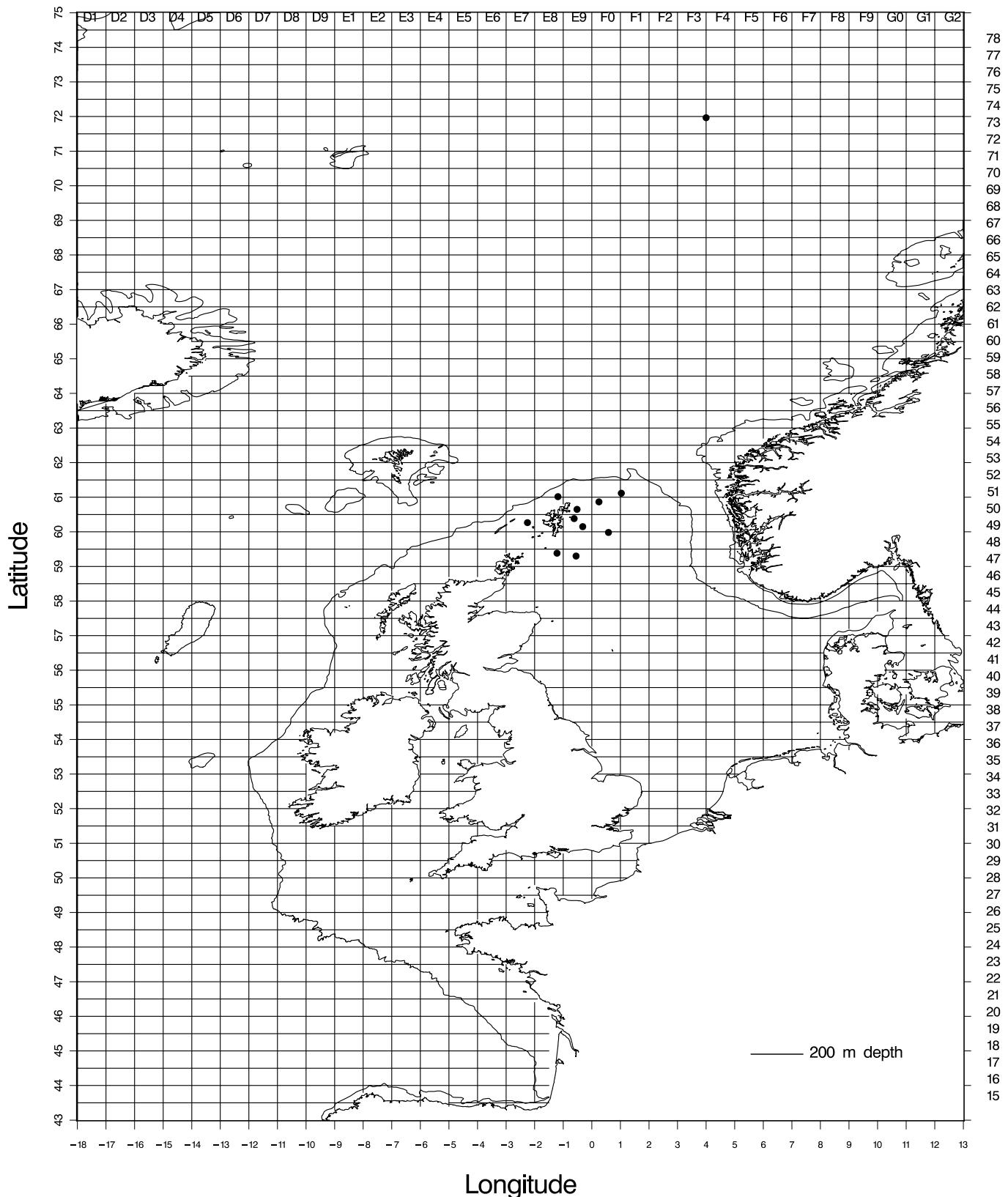


Figure 11c: Mackerel quarter 3 2005
Positions of age/length samples of commercial catches

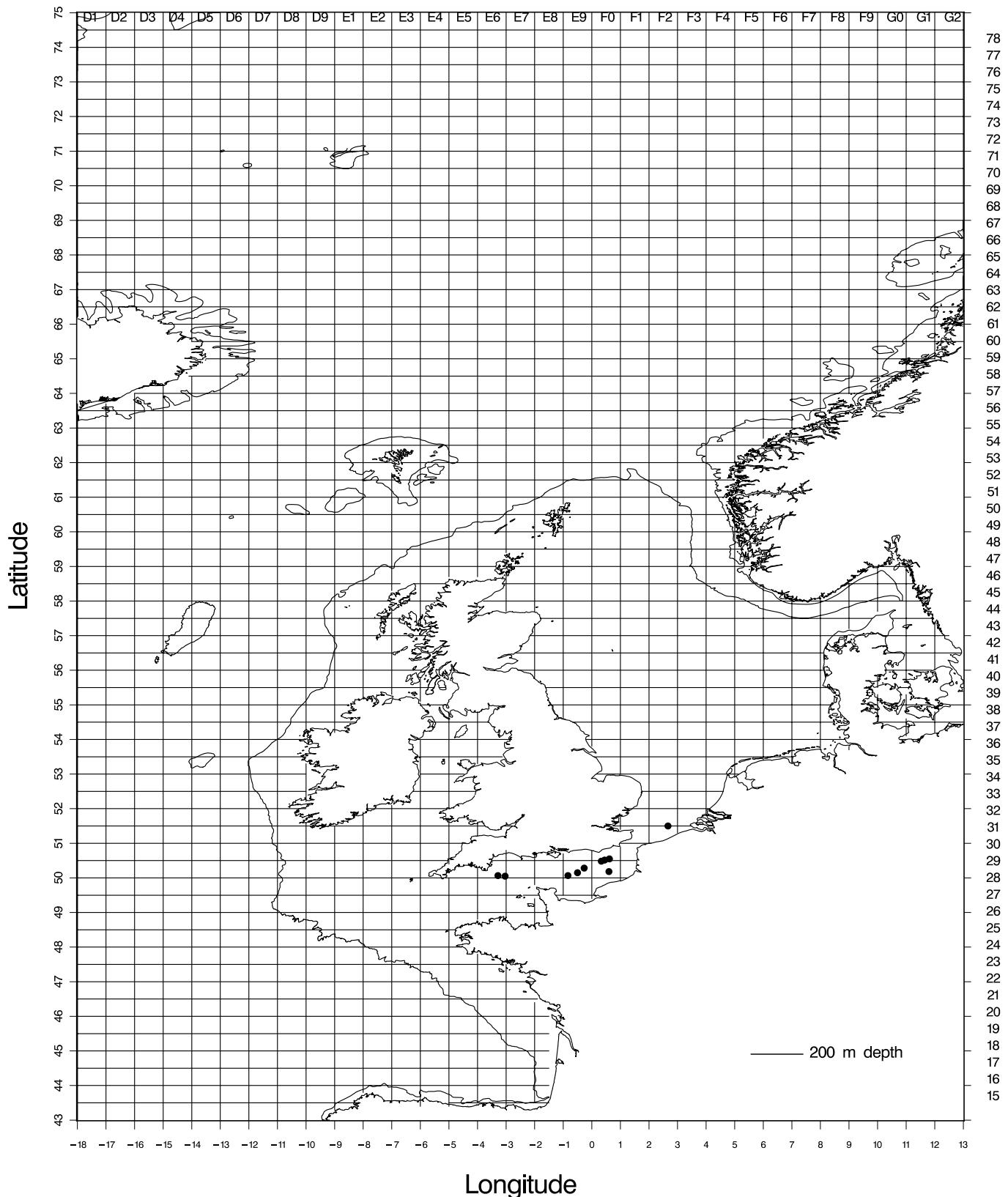


Figure 11d: Mackerel quarter 4 2005
Positions of age/length samples of commercial catches

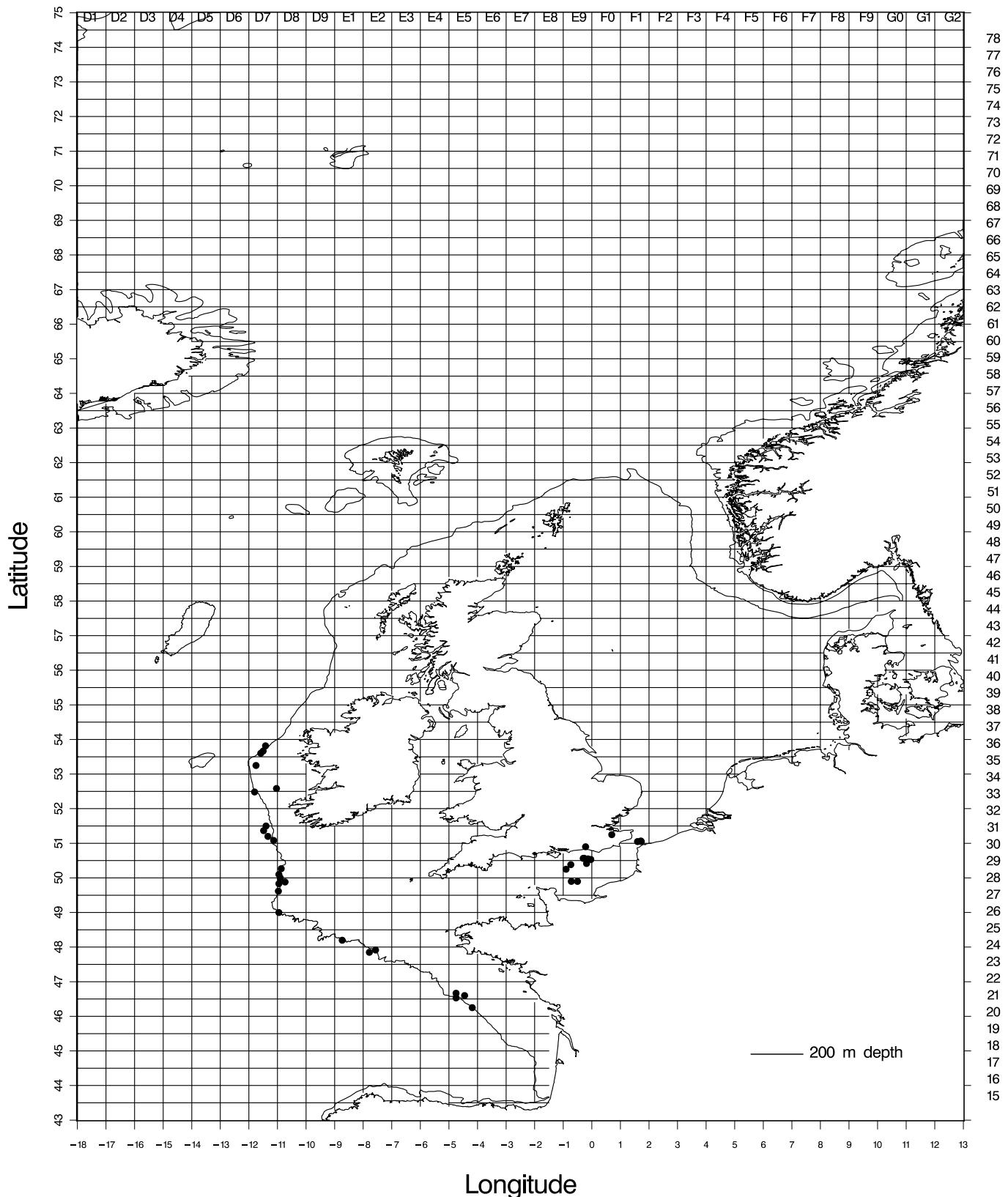


Figure 12a: Horse mackerel quarter 1 2005
Positions of age/length samples of commercial catches

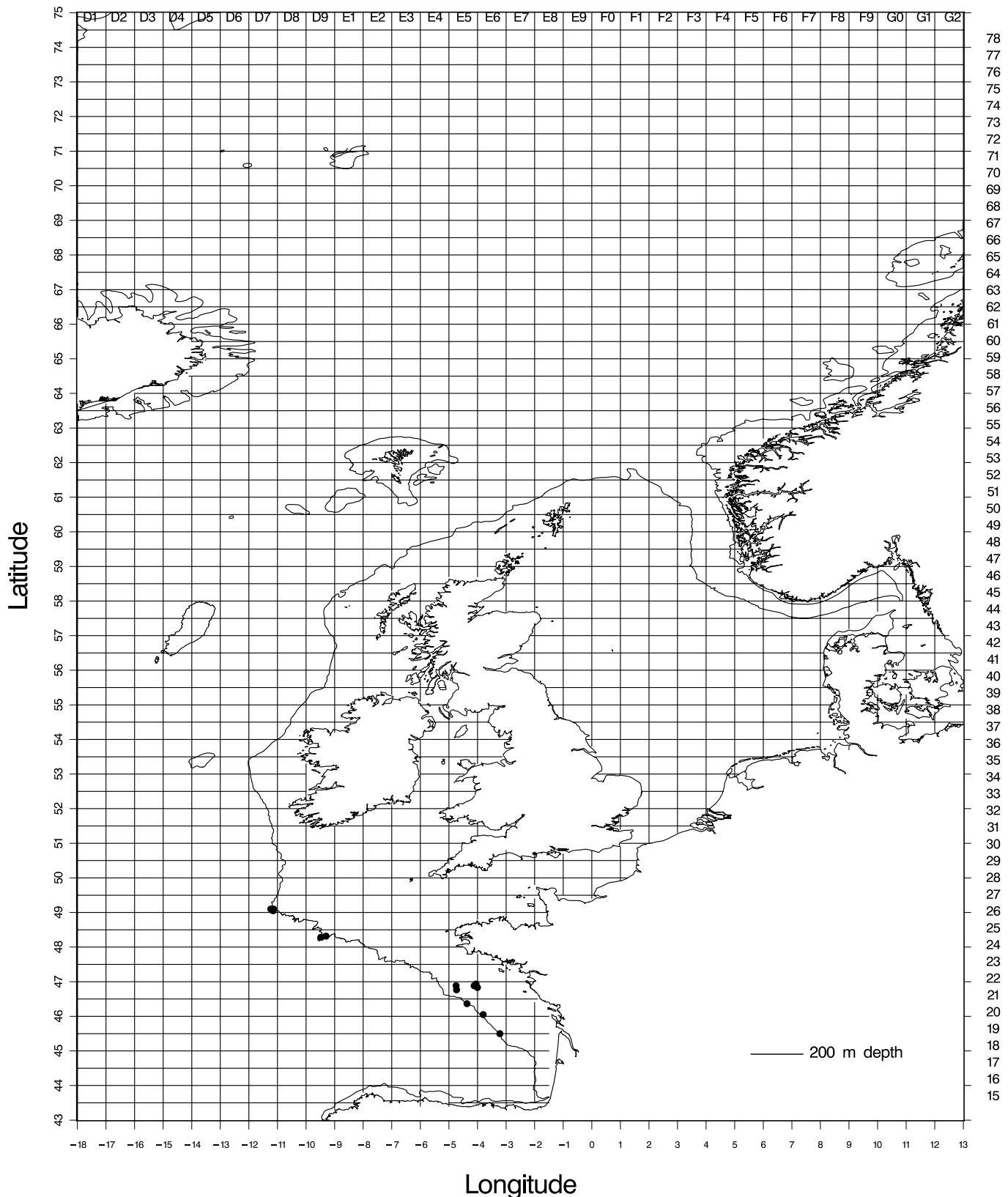


Figure 12b: Horse mackerel quarter 2 2005
Positions of age/length samples of commercial catches

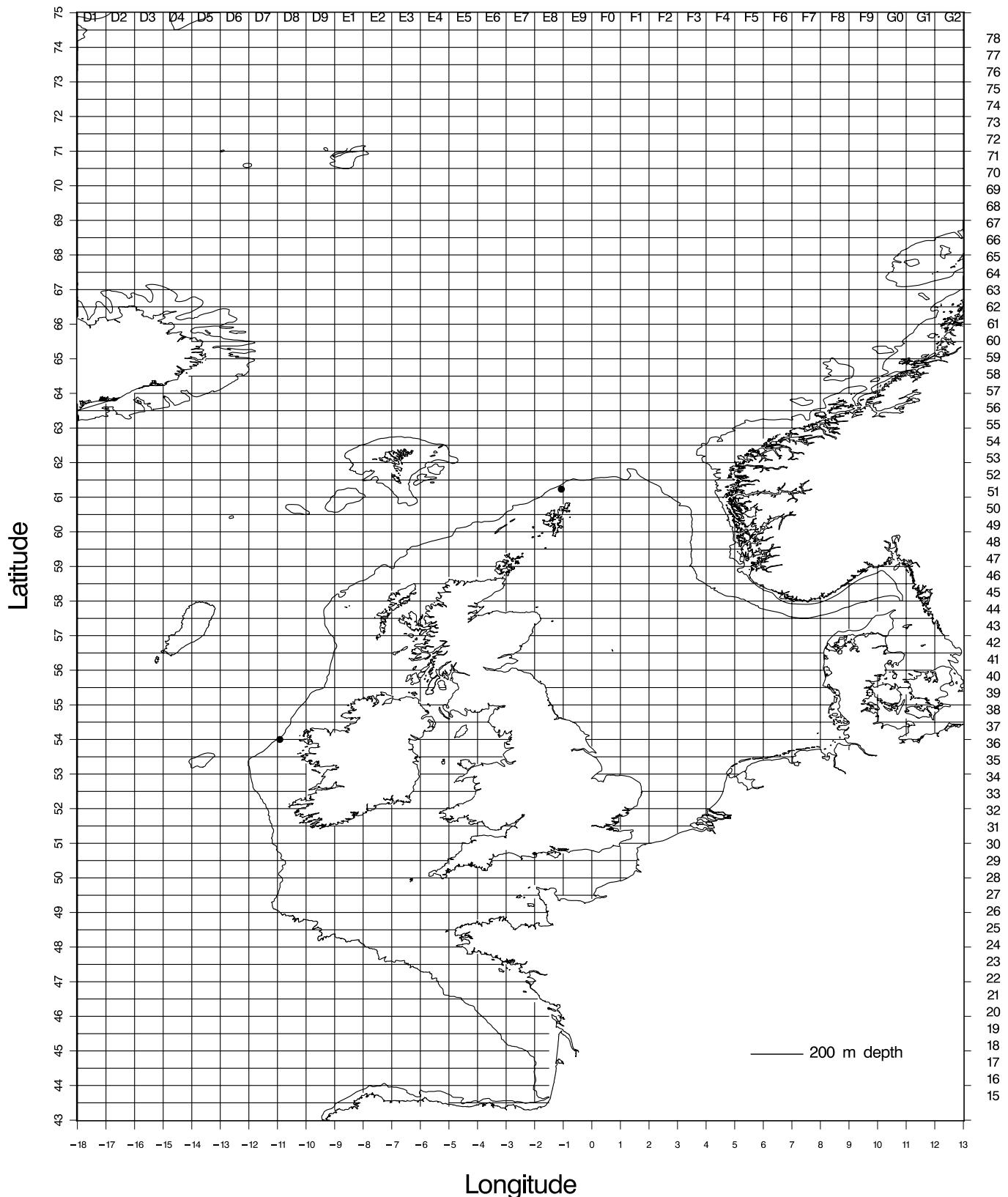


Figure 12c: Horse mackerel quarter 3 2005
Positions of age/length samples of commercial catches

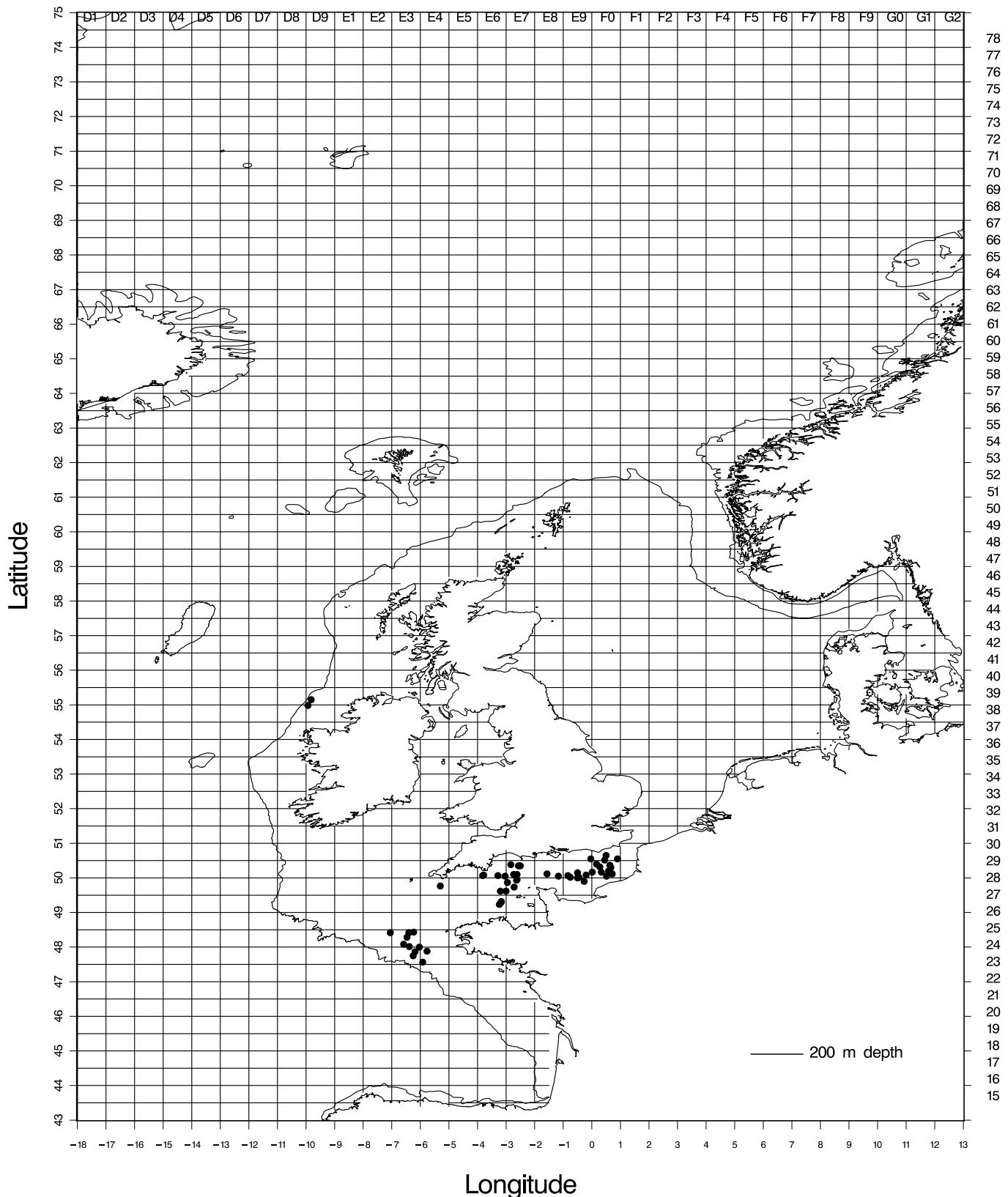


Figure 12d: Horse mackerel quarter 4 2005
Positions of age/length samples of commercial catches

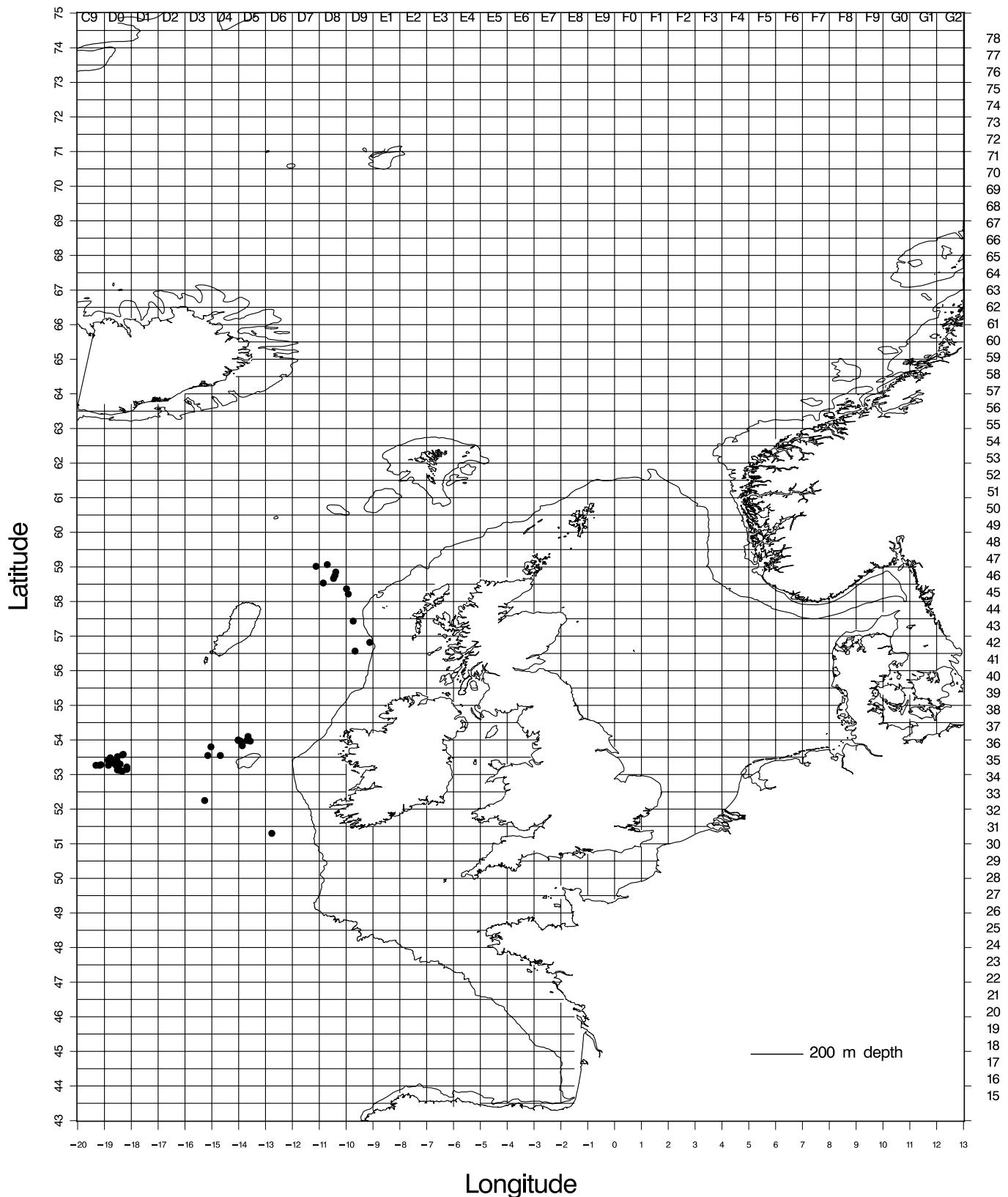


Figure 13a: Blue whiting quarter 1 2005
Positions of age/length samples of commercial catches

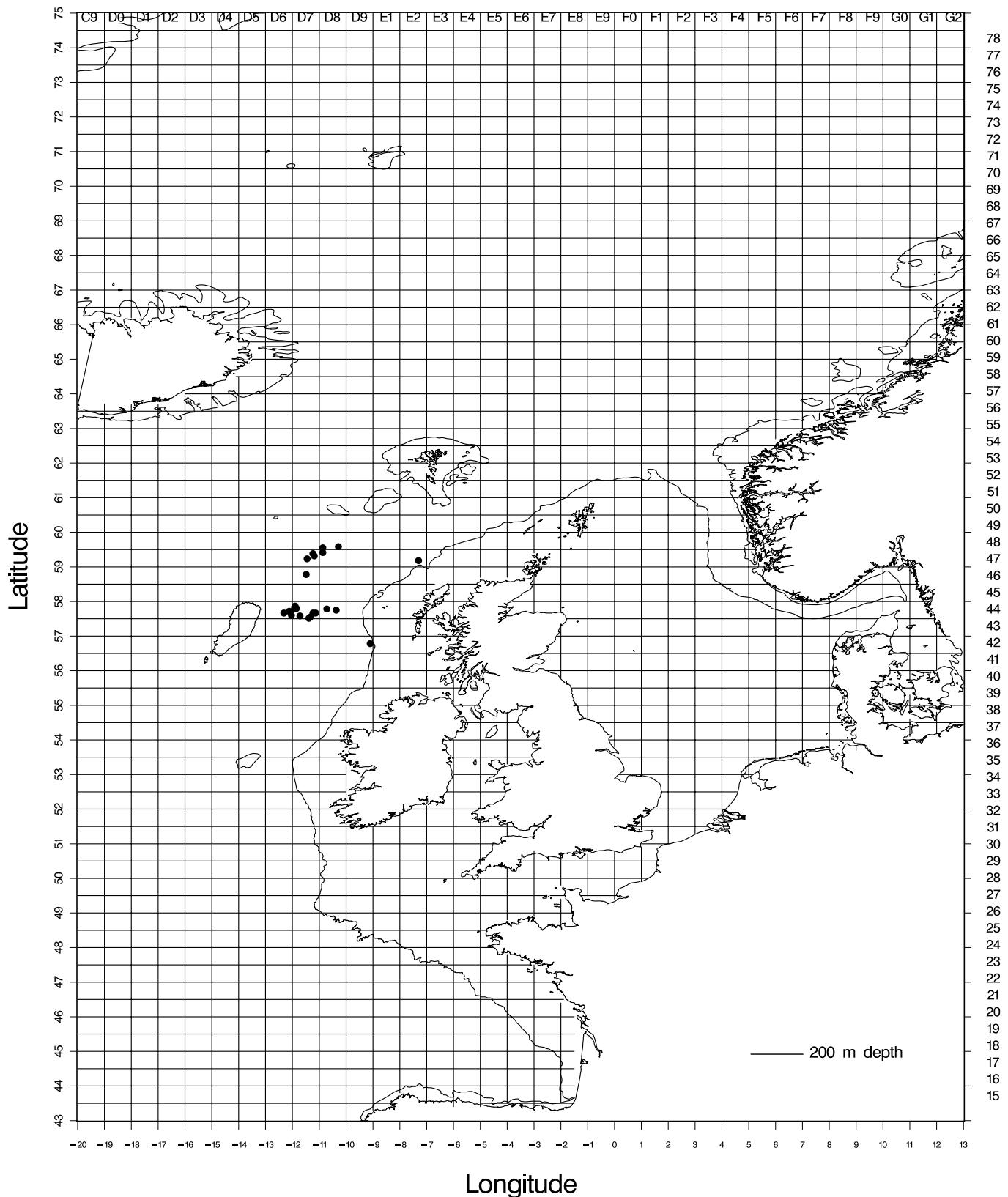


Figure 13b: Blue whiting quarter 2 2005
Positions of age/length samples of commercial catches

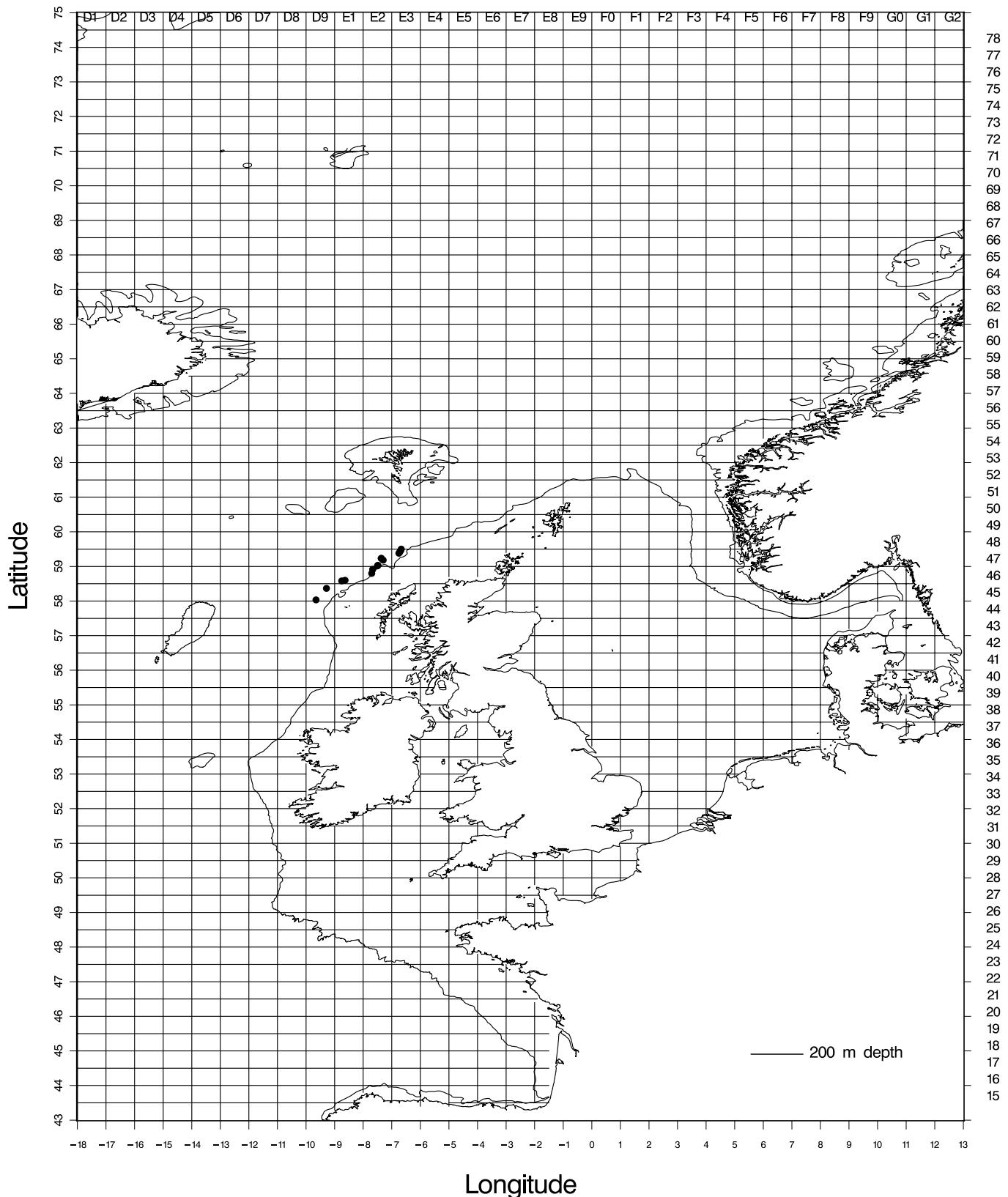


Figure 14b: Greater argentine quarter 2 2005
Positions of age/length samples of commercial catches

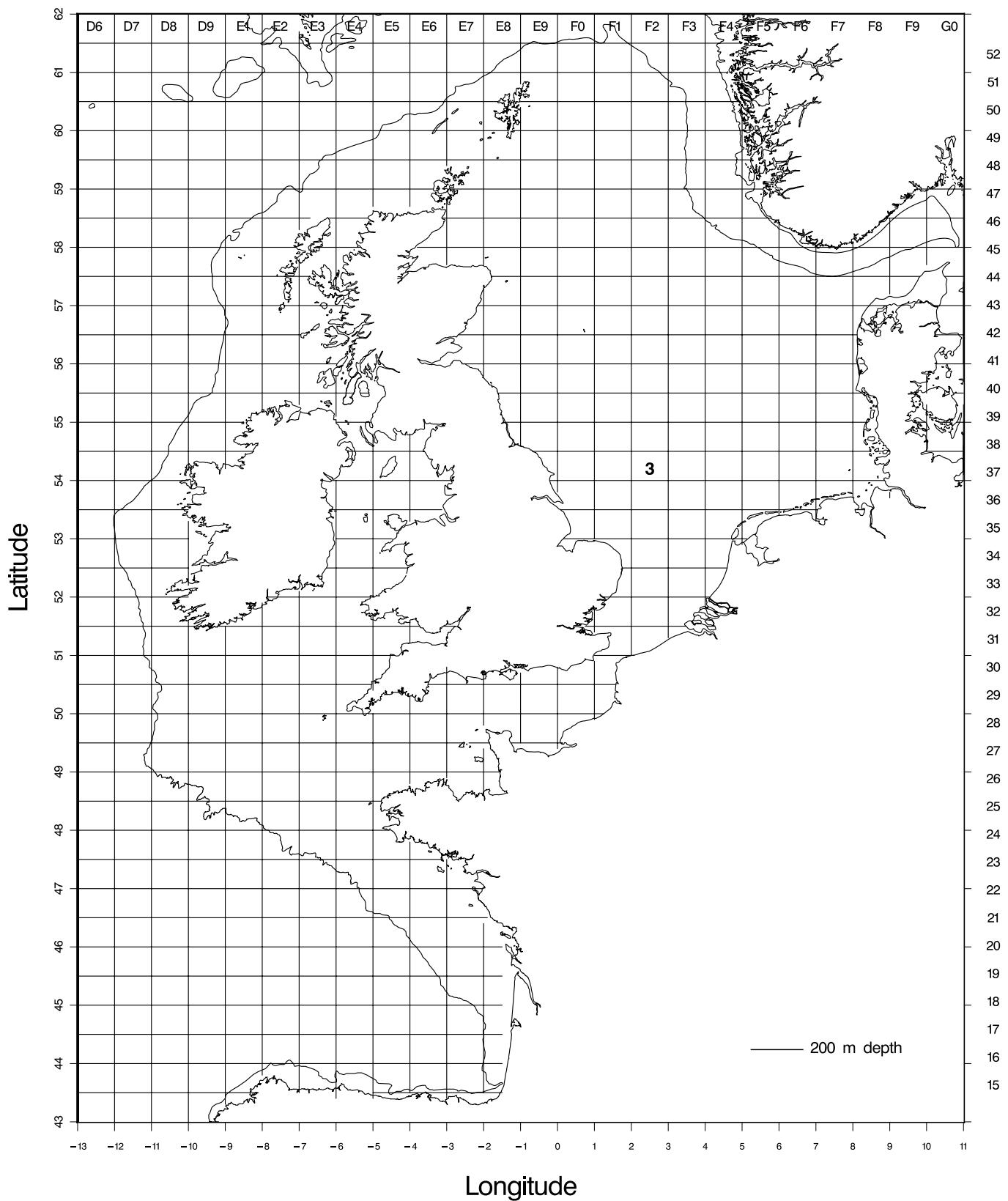


Figure 15a: Nephrops quarter 1 2005

Number of age/length samples of commercial catches per ICES rectangle

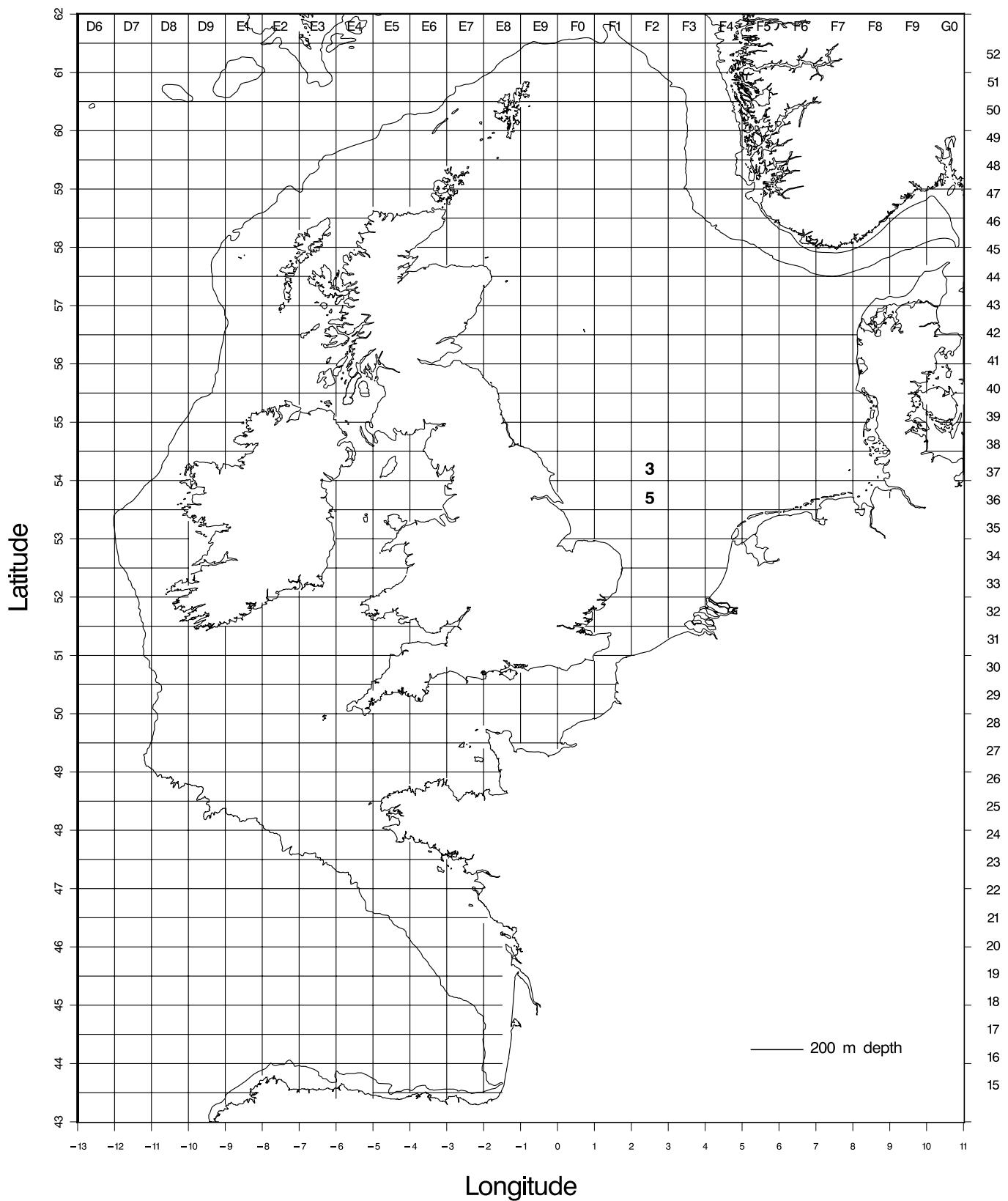


Figure 15b: Nephrops quarter 2 2005

Number of age/length samples of commercial catches per ICES rectangle

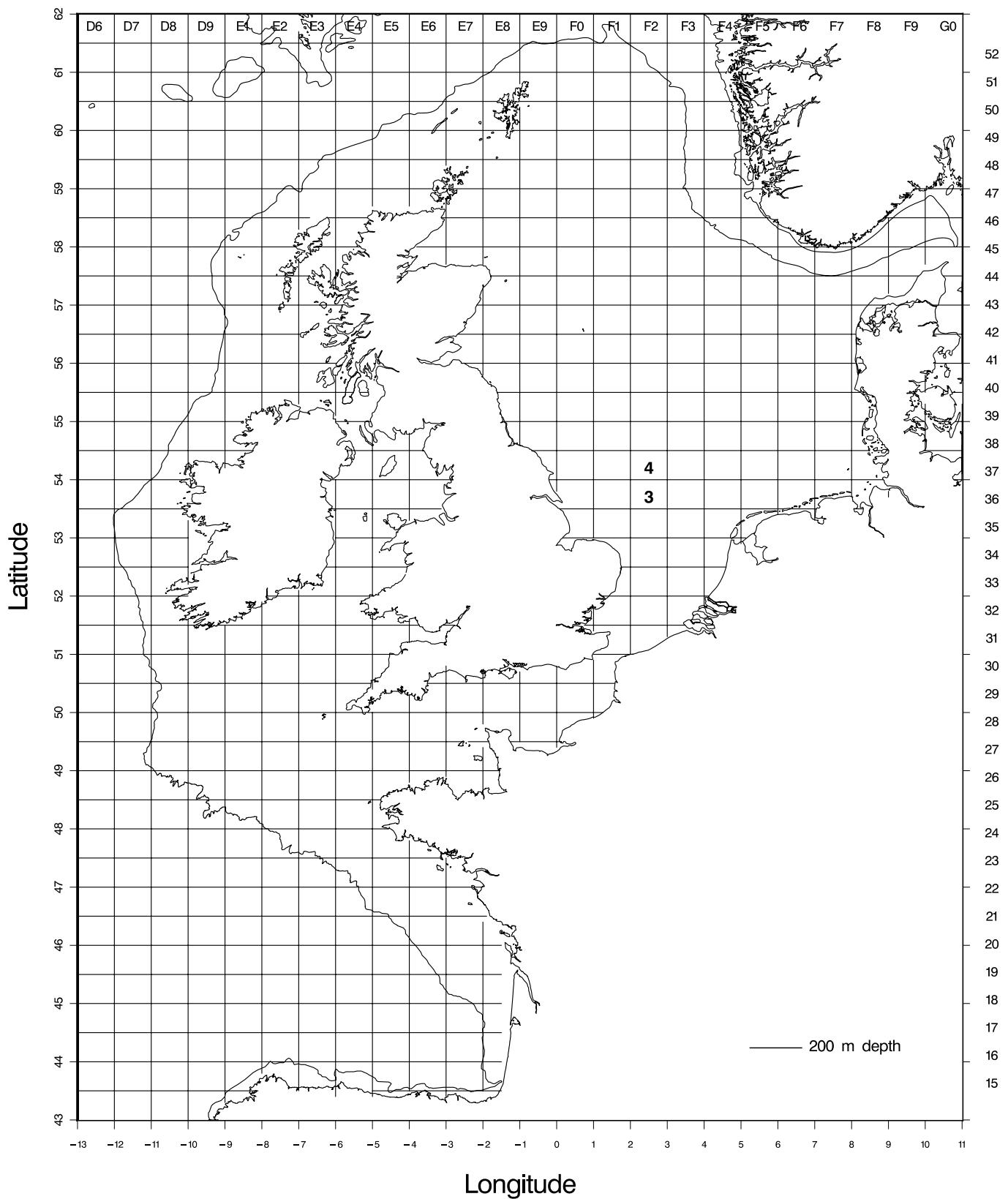


Figure 15c: Nephrops quarter 3 2005

Number of age/length samples of commercial catches per ICES rectangle

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Overview of samples
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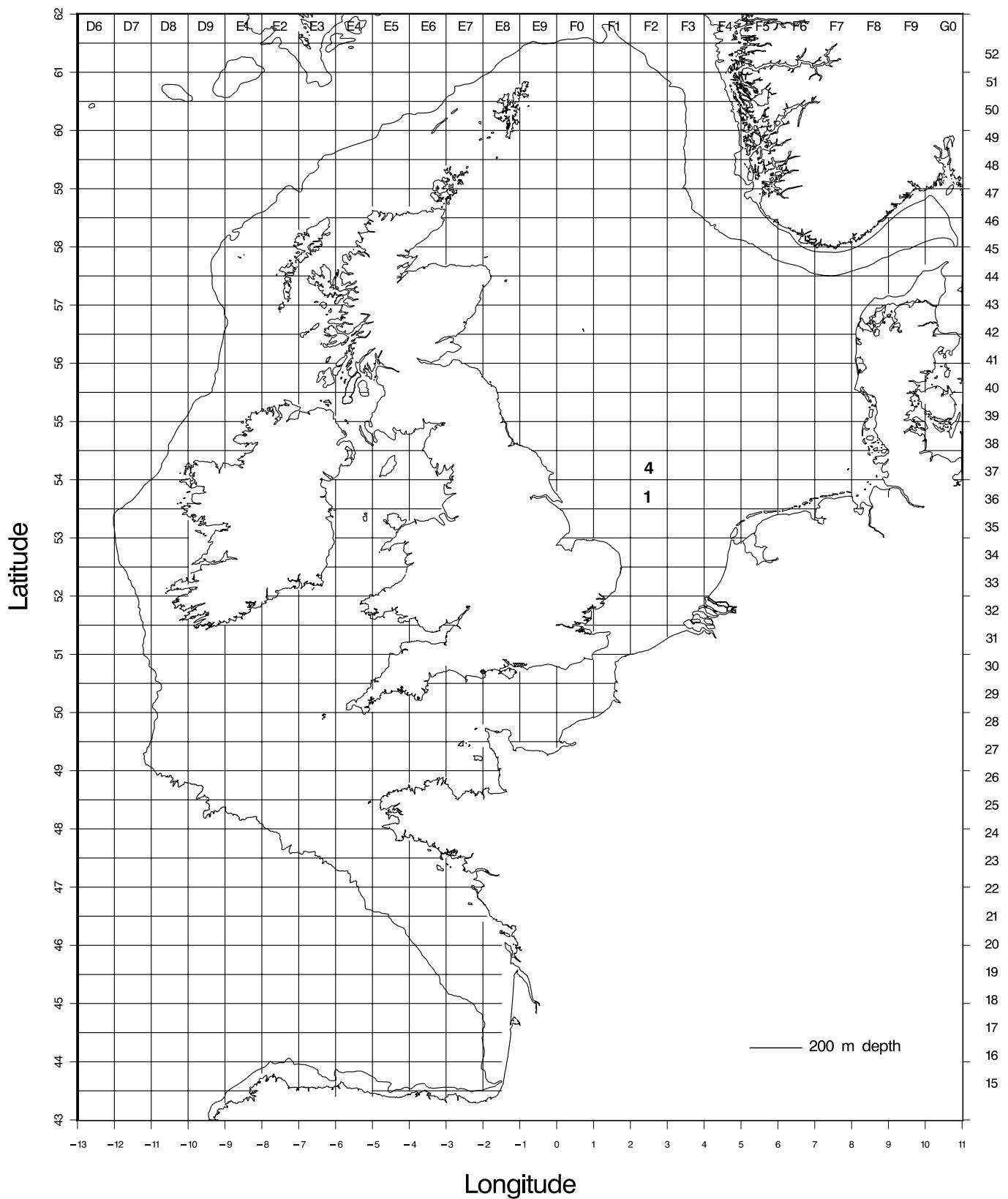


Figure 15d: Nephrops quarter 4 2005

Number of age/length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

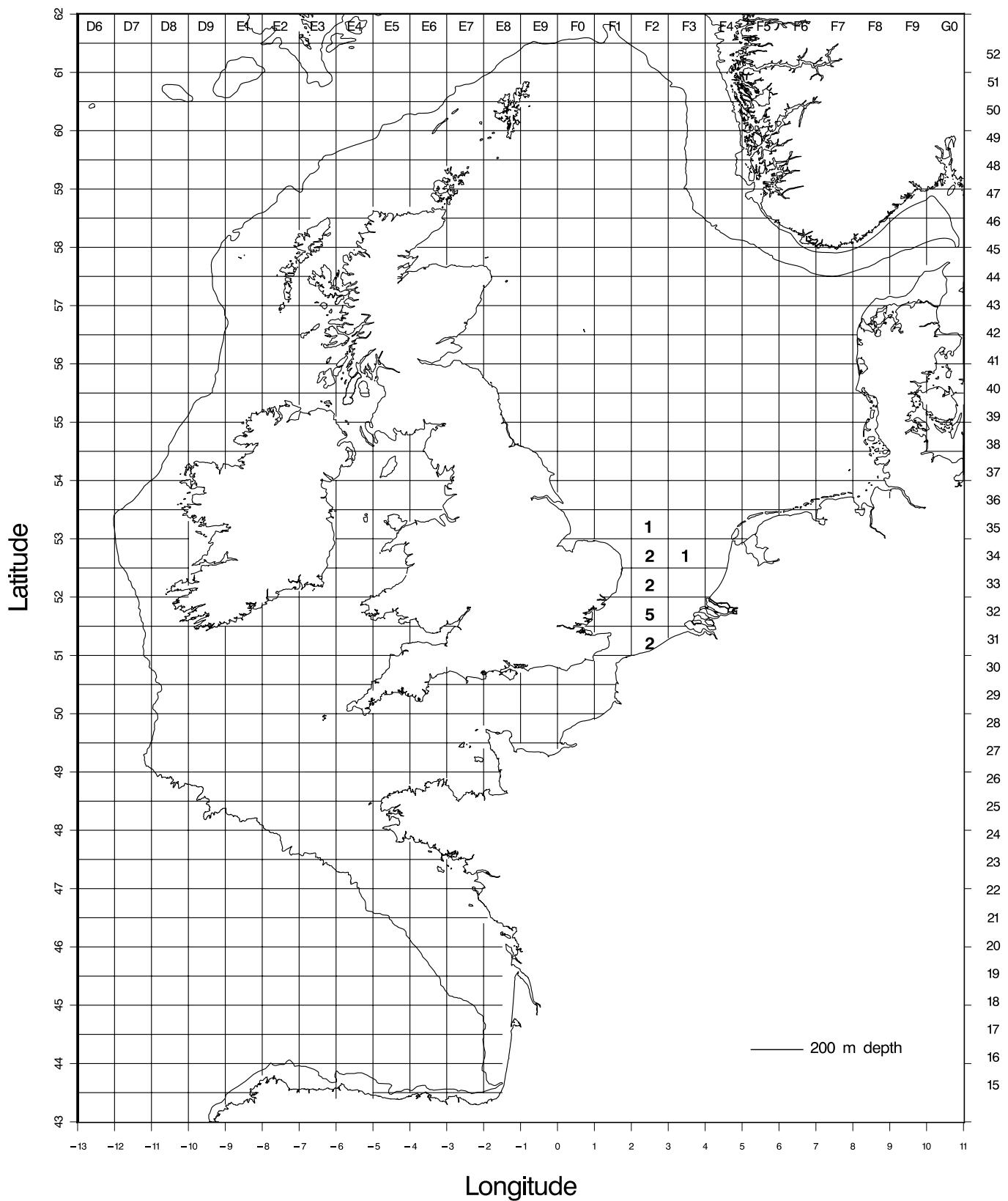


Figure 16a: Ray blond quarter 1 2005

Number of age/length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

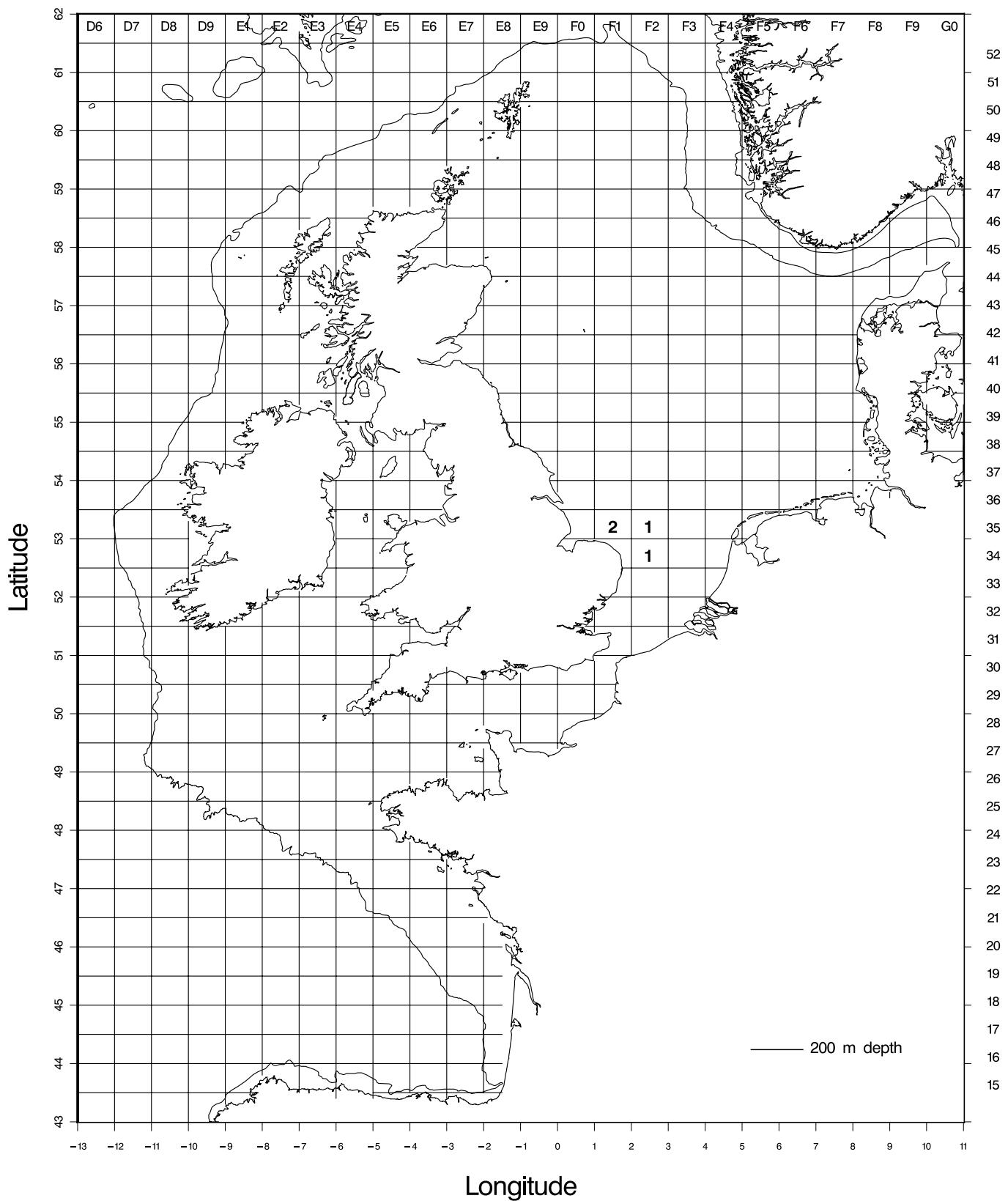


Figure 16b: Ray blond quarter 2 2005

Number of age/length samples of commercial catches per ICES rectangle

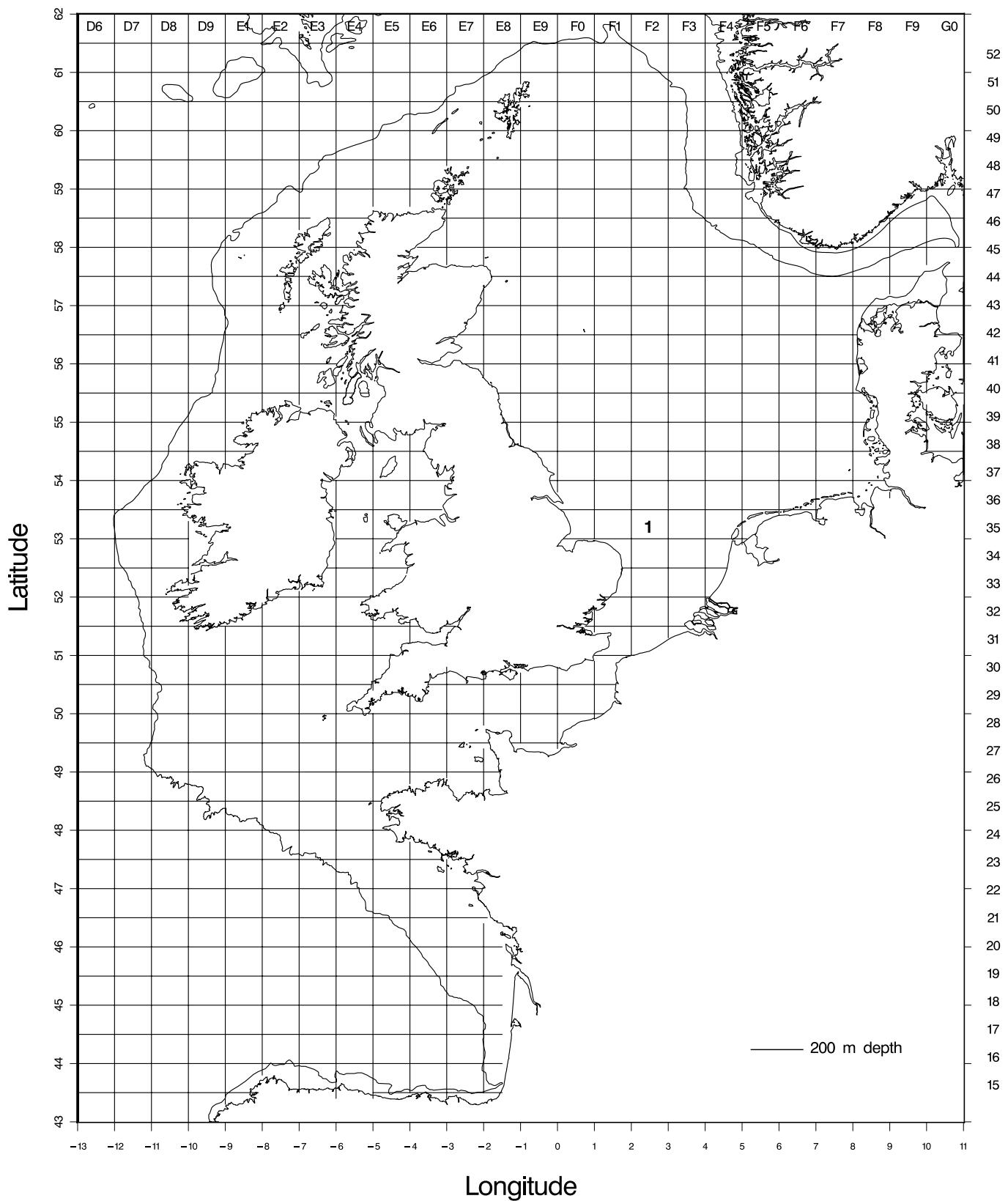


Figure 16c: Ray blond quarter 3 2005

Number of age/length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

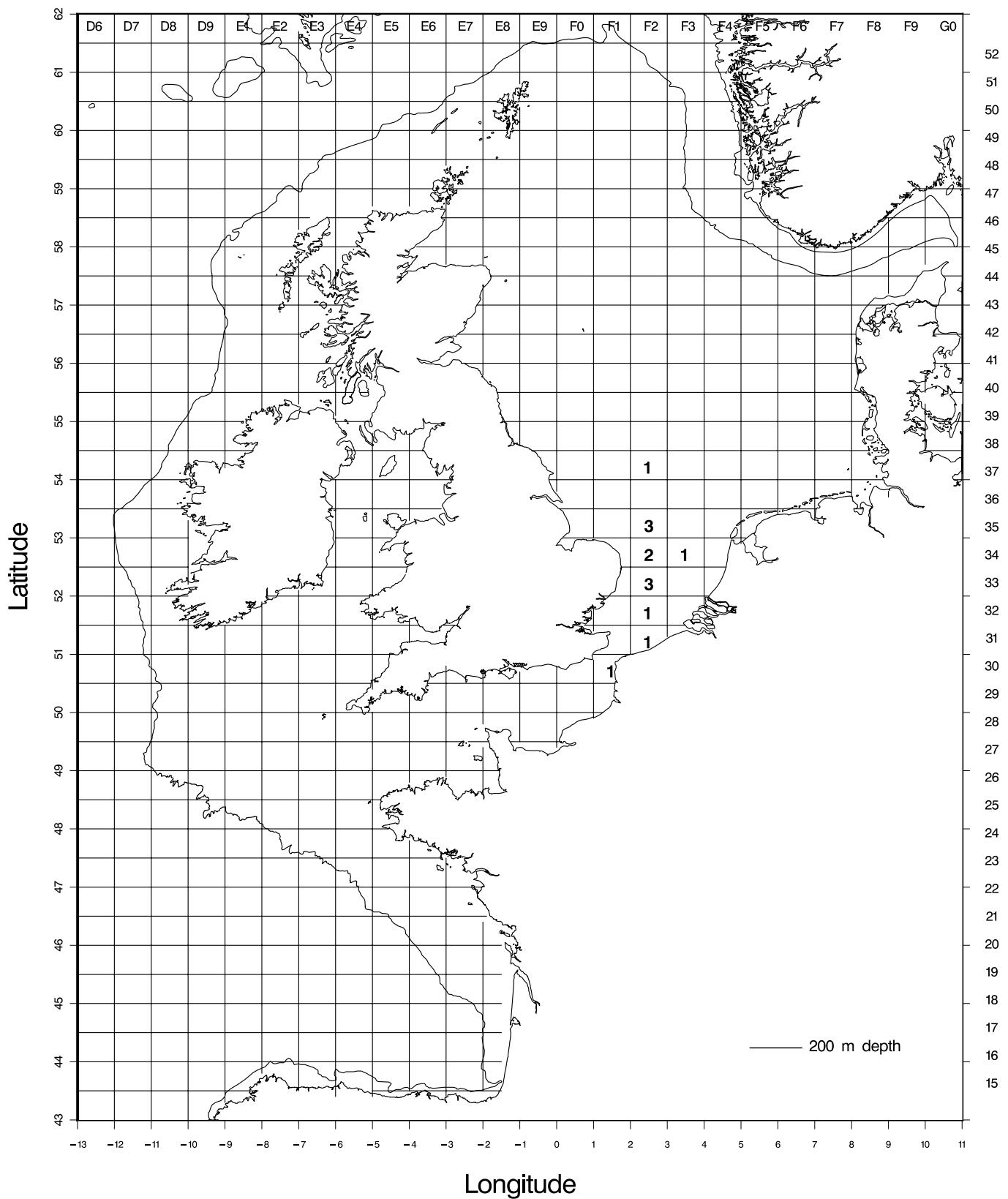


Figure 16d: Ray blond quarter 4 2005

Number of age/length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

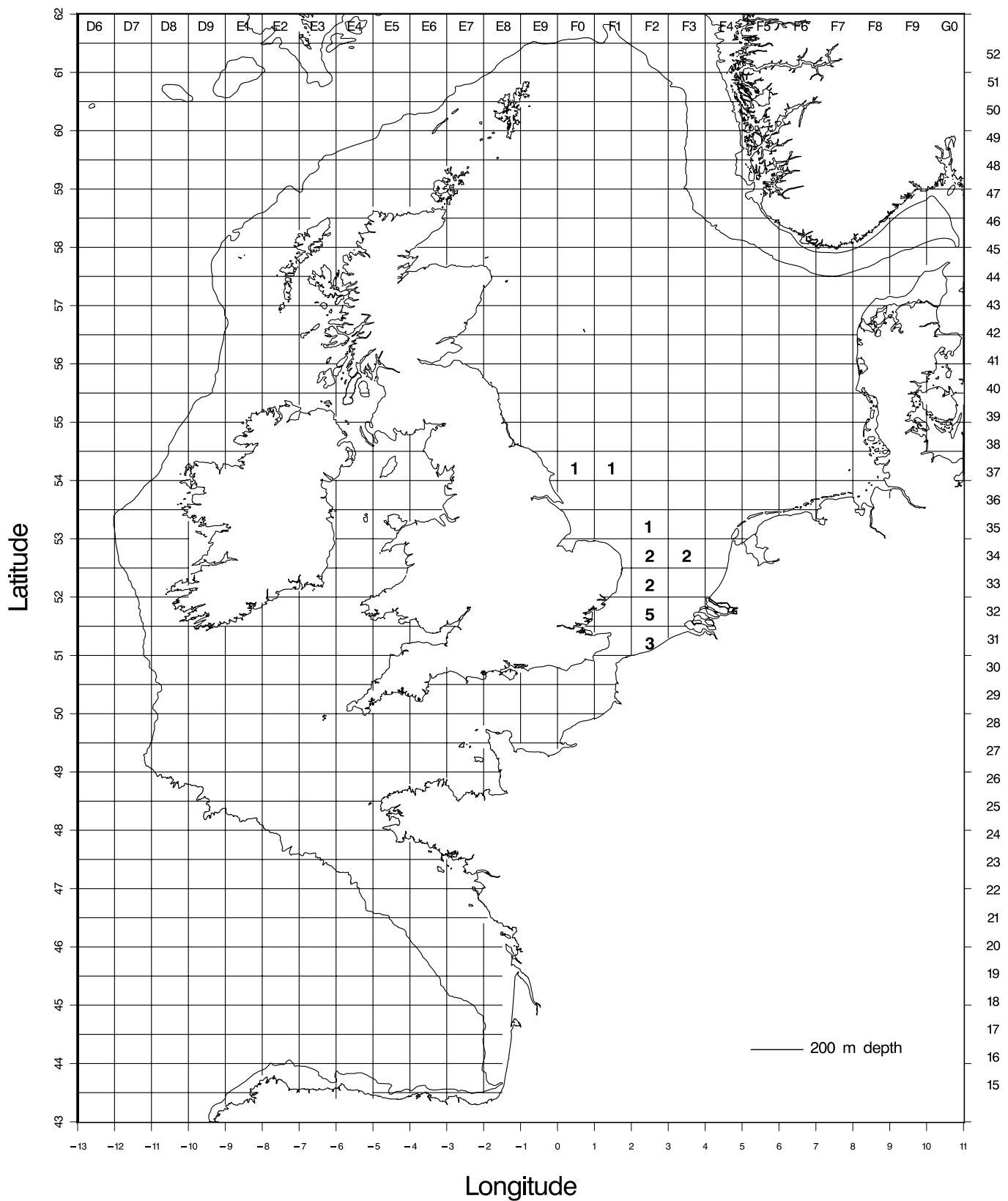


Figure 17a: Ray spotted quarter 1 2005

Number of age/length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

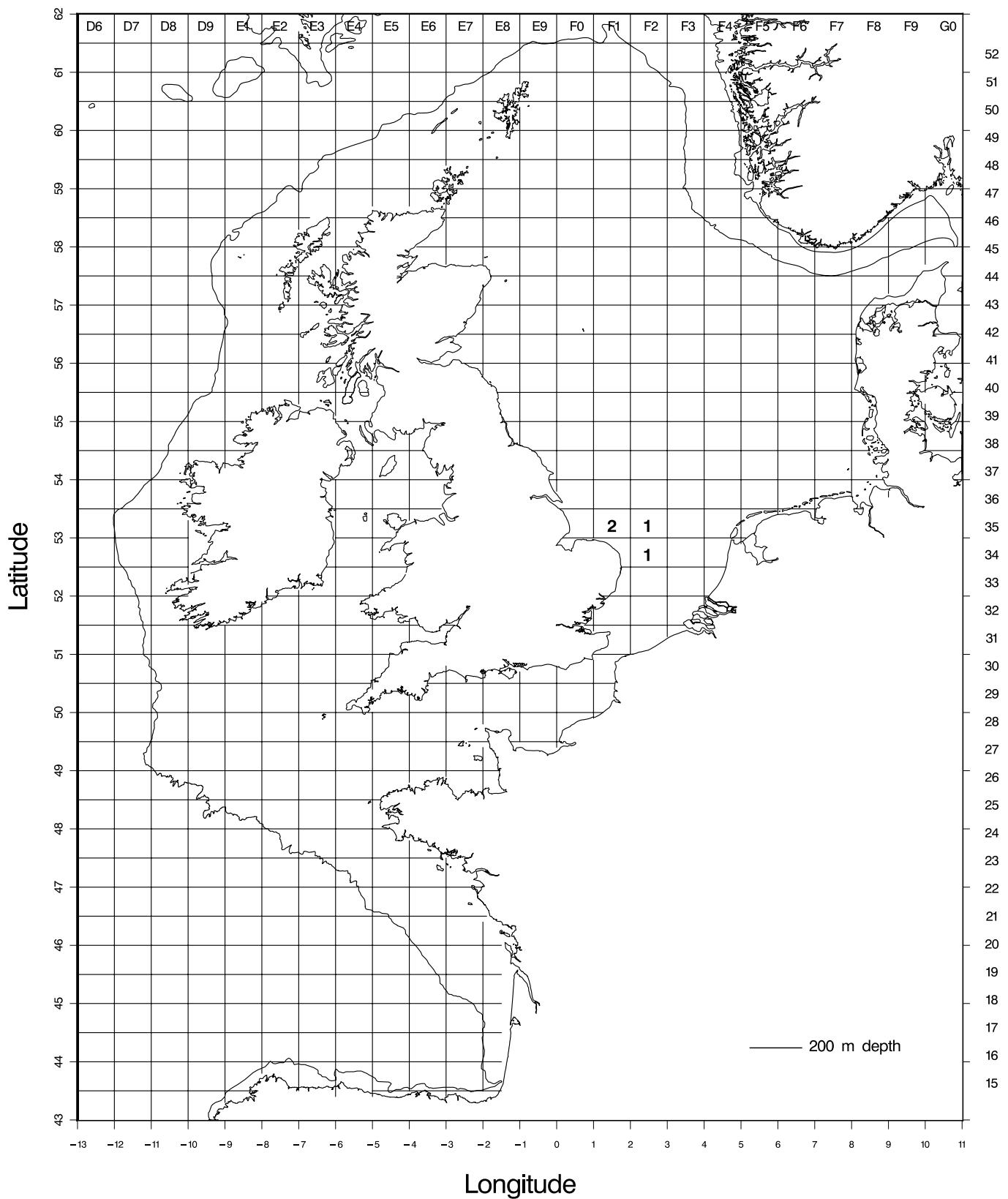


Figure 17b: Ray spotted quarter 2 2005

Number of age/length samples of commercial catches per ICES rectangle

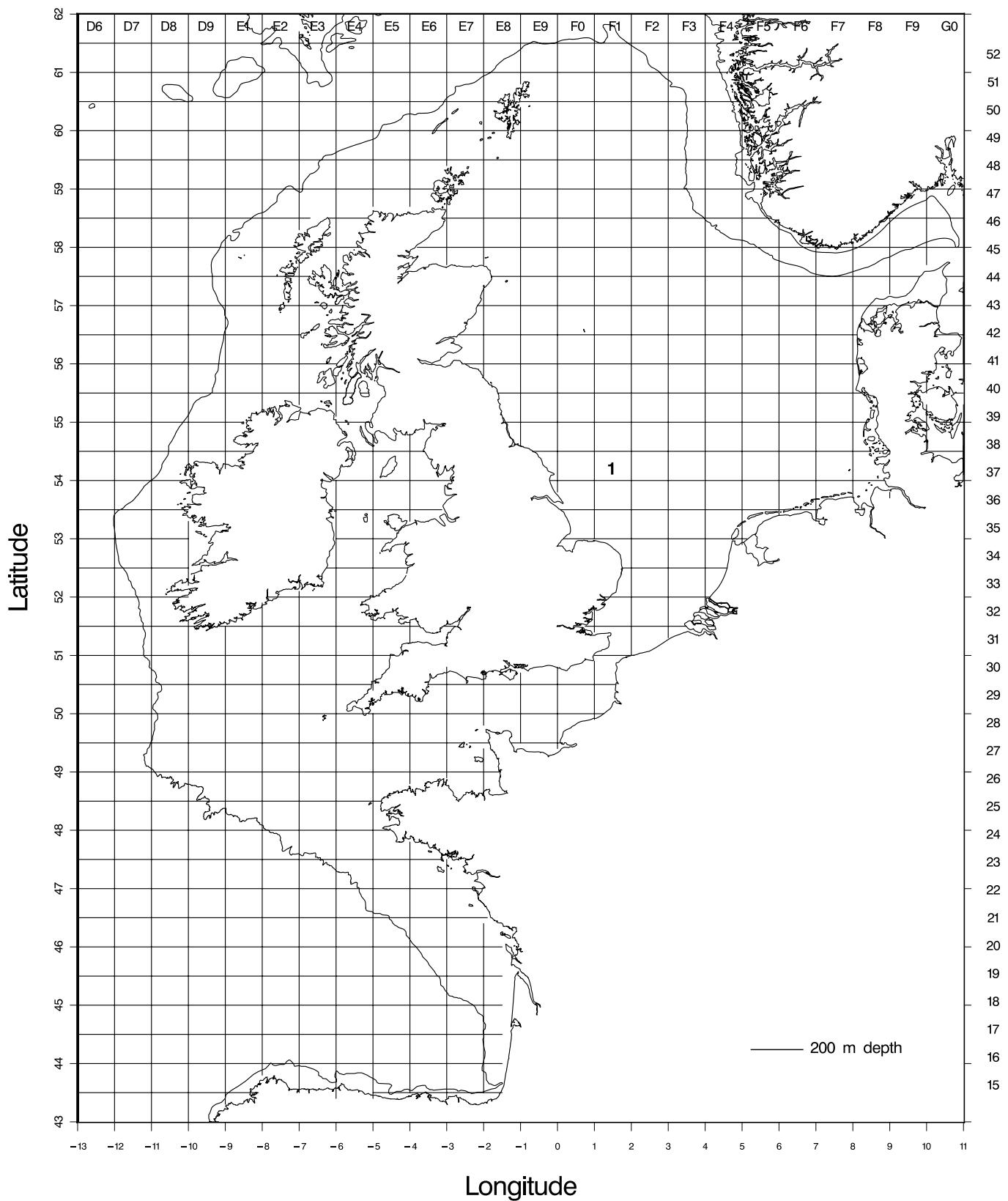


Figure 17c: Ray spotted quarter 3 2005

Number of age/length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

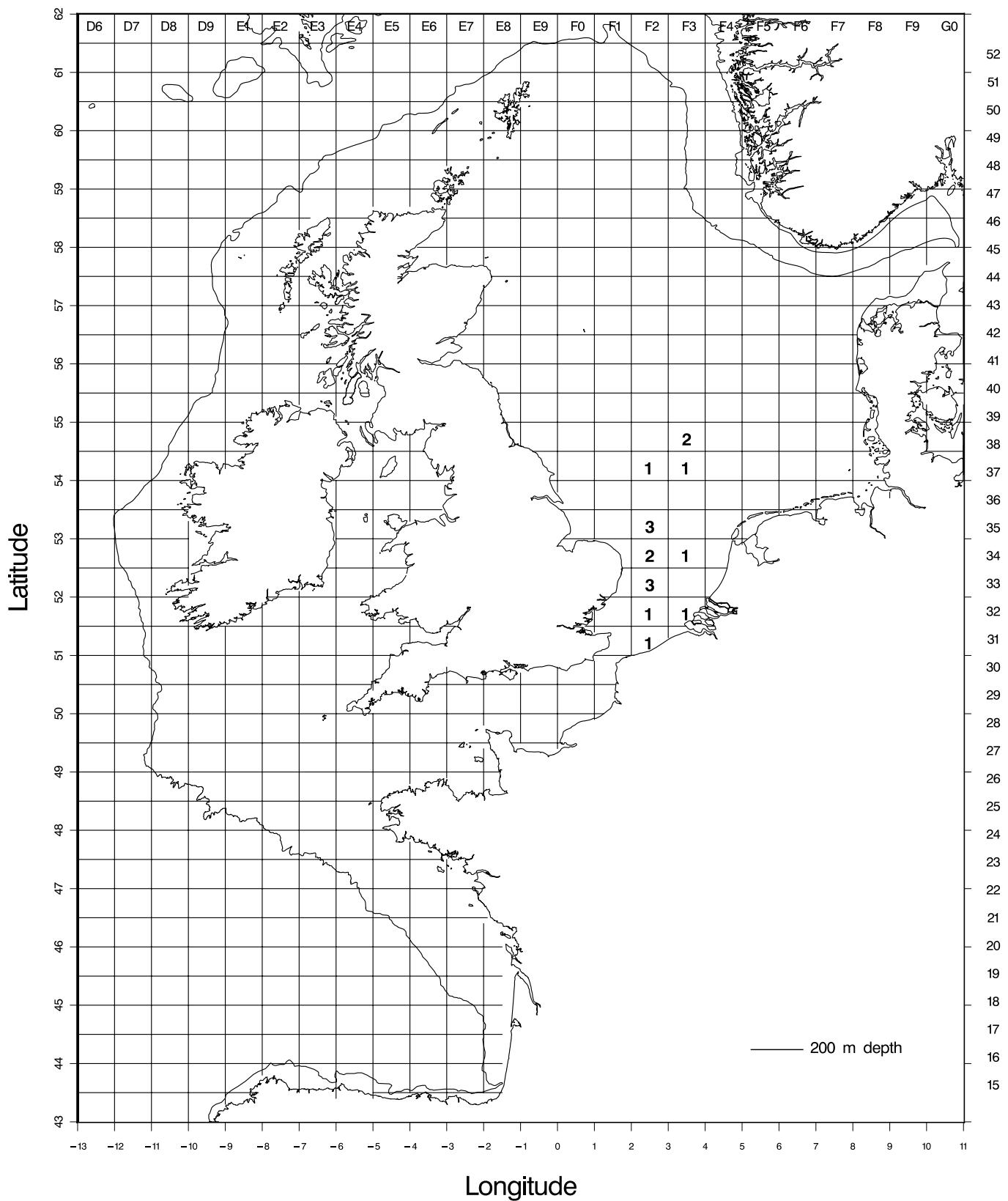


Figure 17d: Ray spotted quarter 4 2005

Number of age/length samples of commercial catches per ICES rectangle

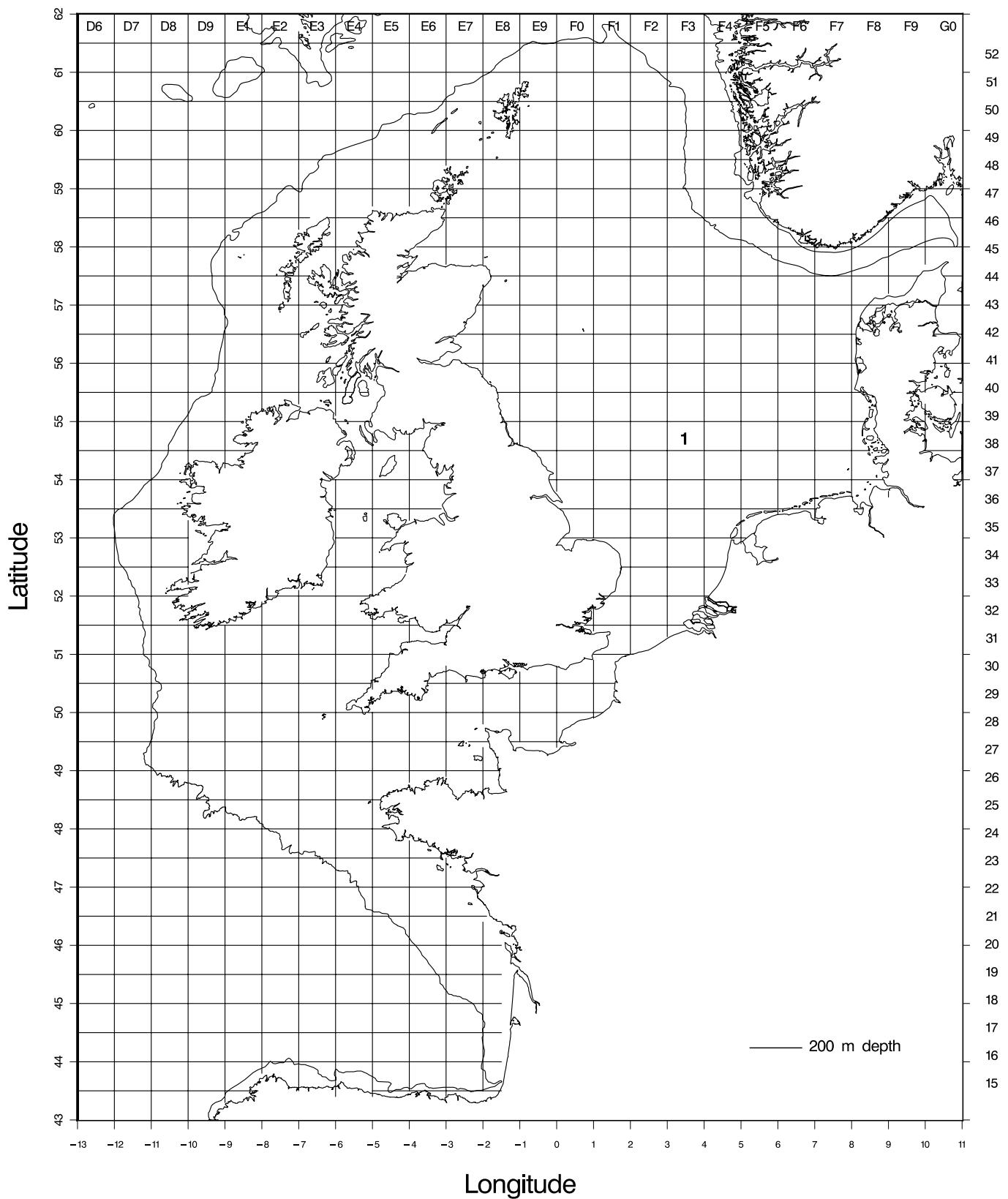


Figure 18d: Ray starry quarter 4 2005

Number of age/length samples of commercial catches per ICES rectangle

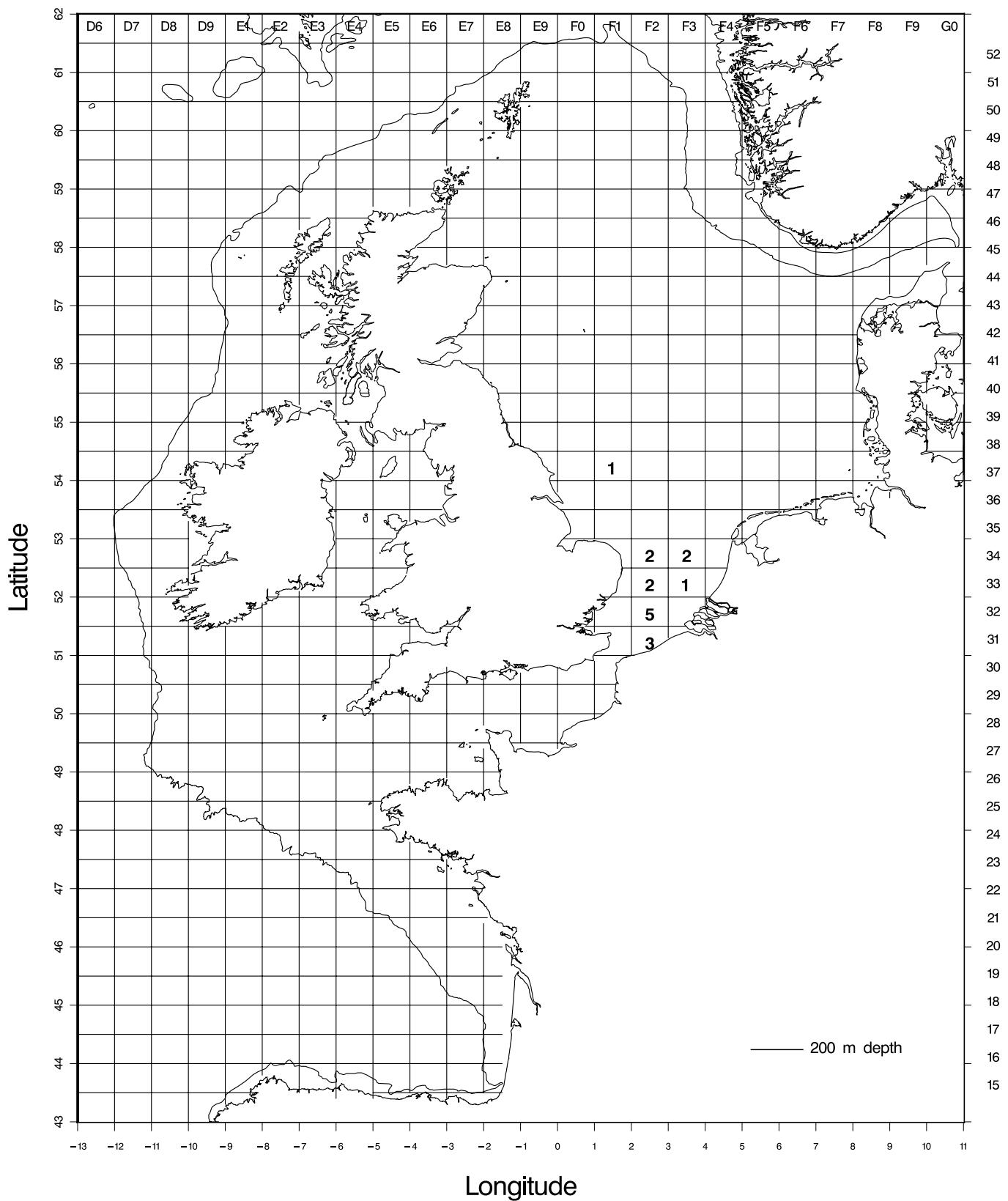


Figure 19a: Ray thornback quarter 1 2005

Number of age/length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

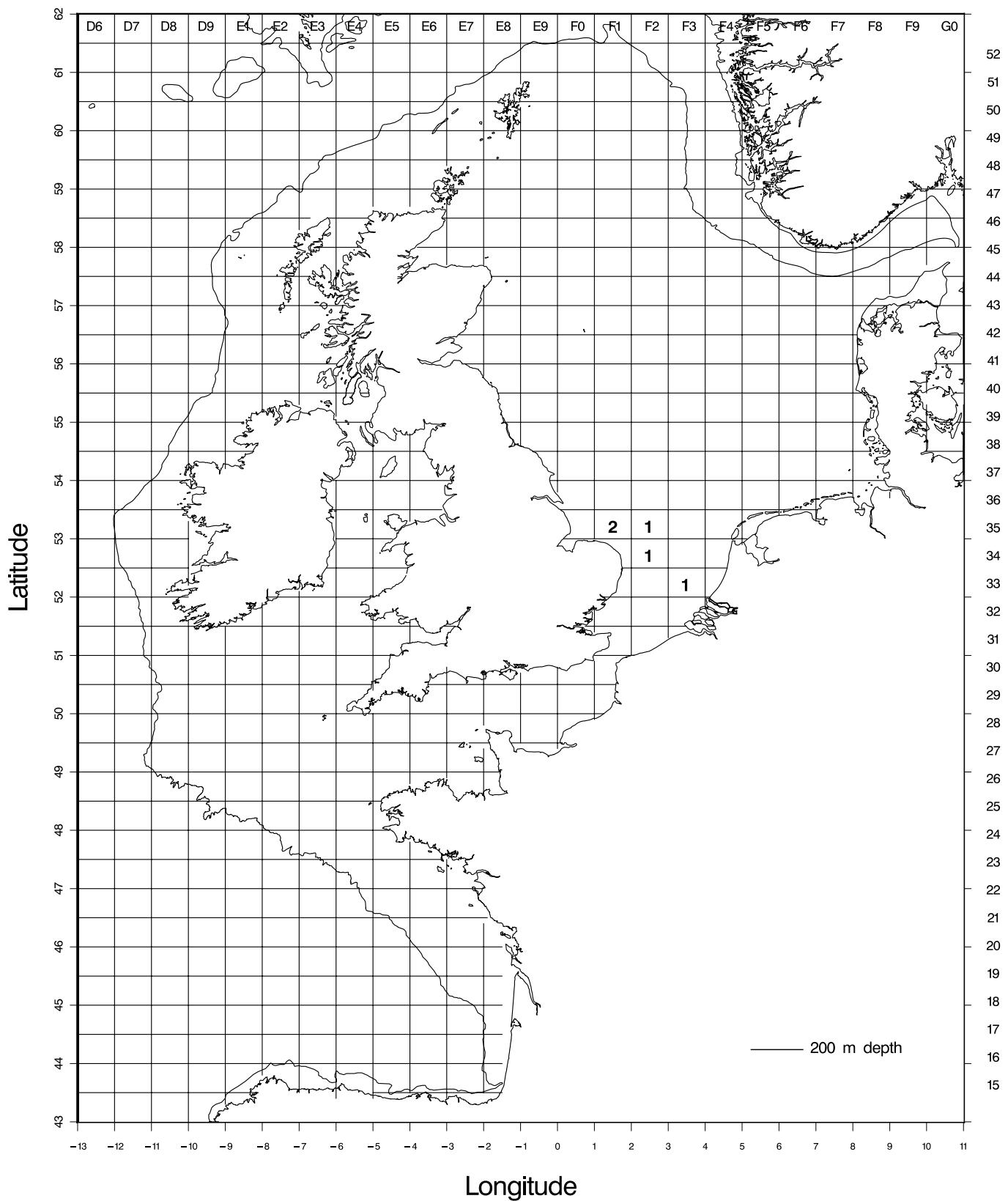


Figure 19b: Ray thornback quarter 2 2005

Number of age/length samples of commercial catches per ICES rectangle

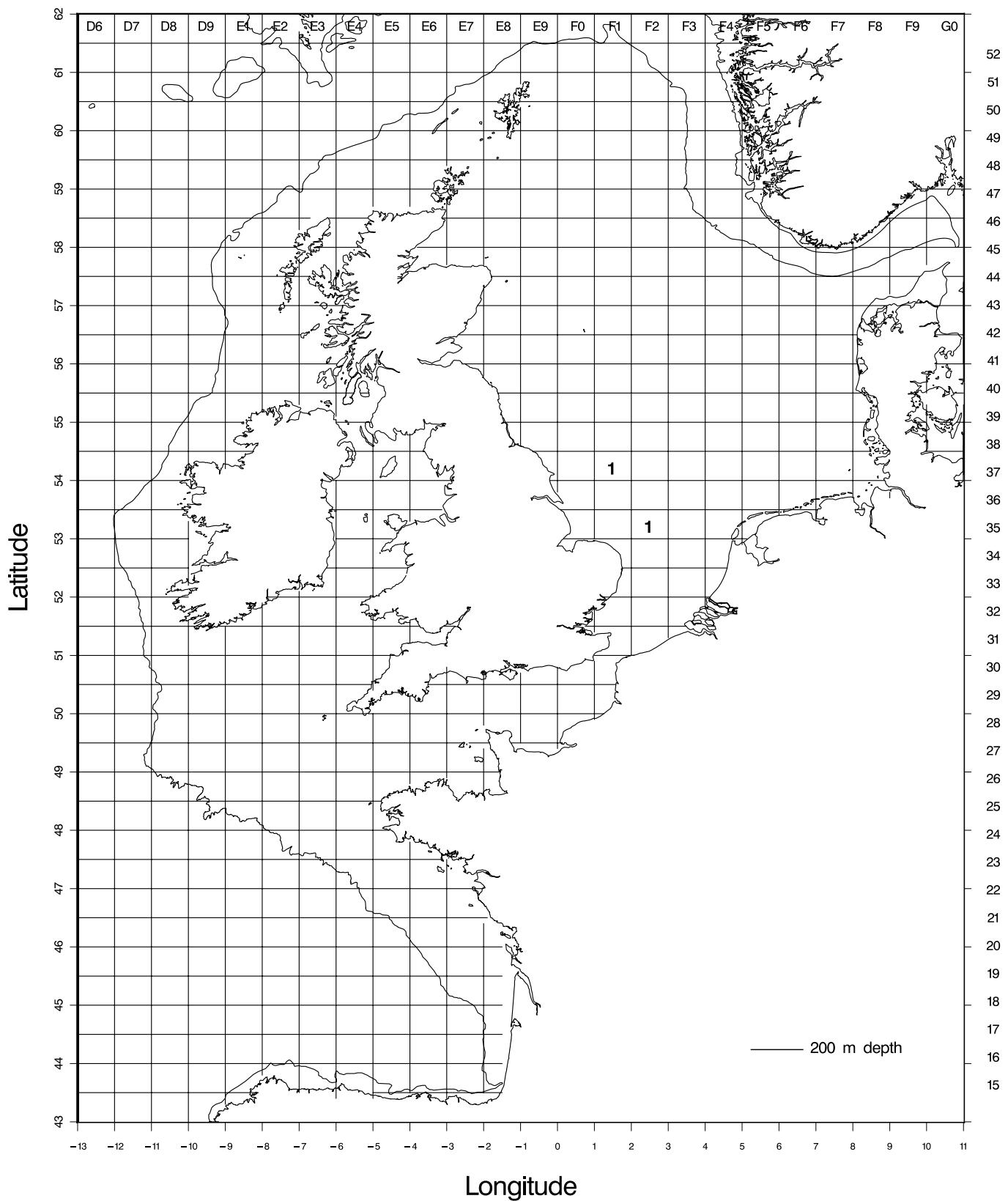


Figure 19c: Ray thornback quarter 3 2005

Number of age/length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

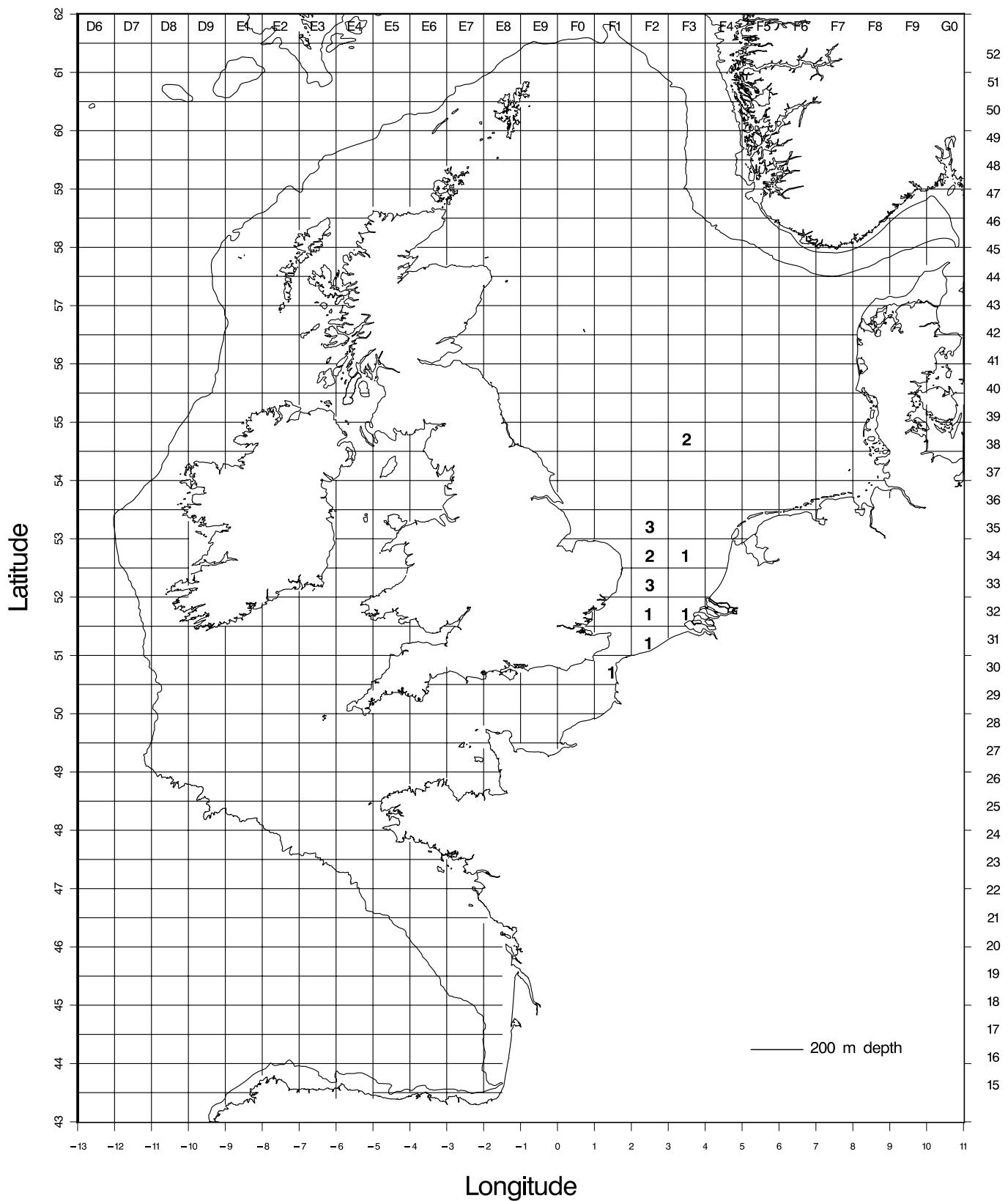


Figure 19d: Ray thornback quarter 4 2005

Number of age/length samples of commercial catches per ICES rectangle

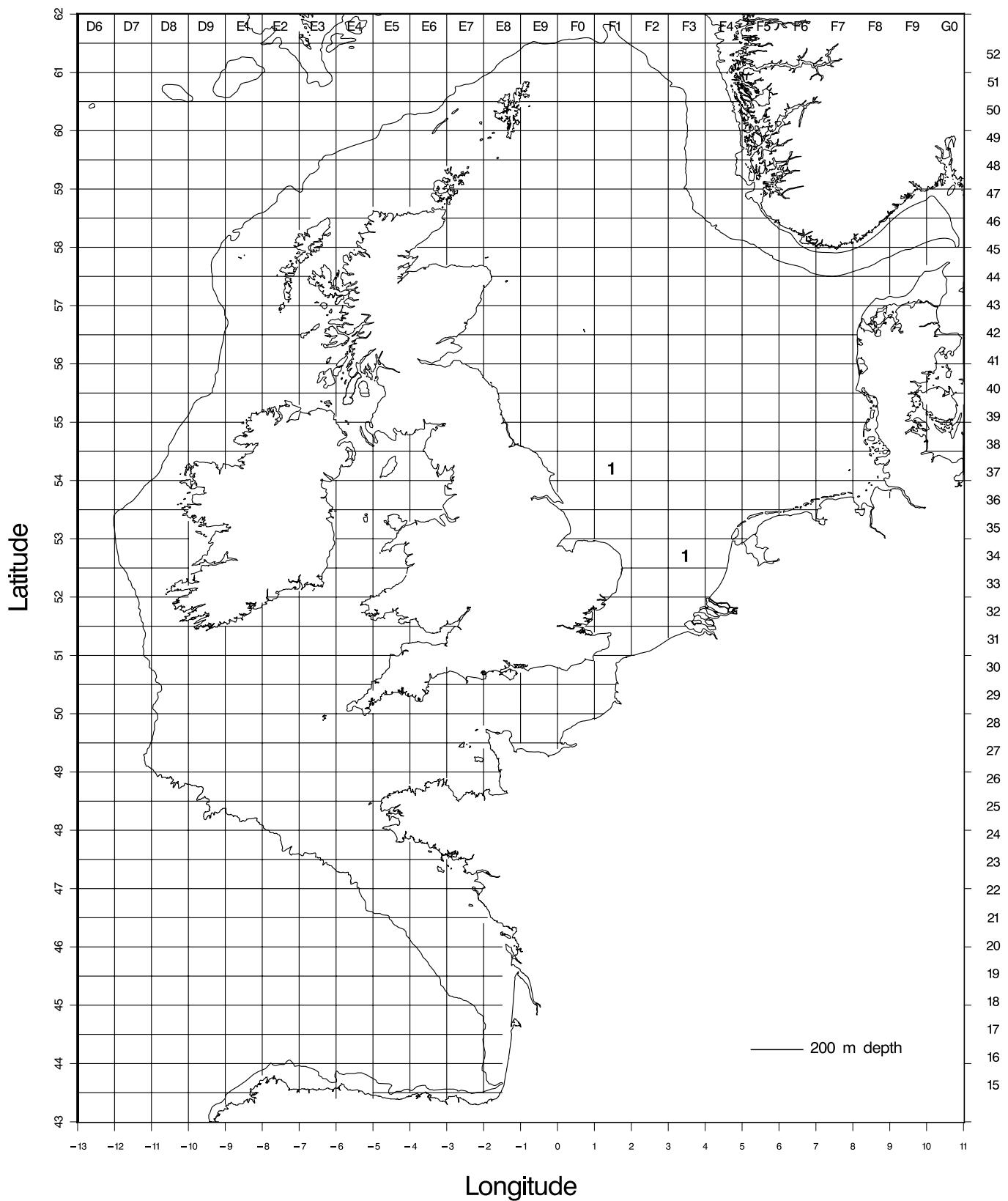


Figure 20a: Ray cuckoo quarter 1 2005

Number of age/length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

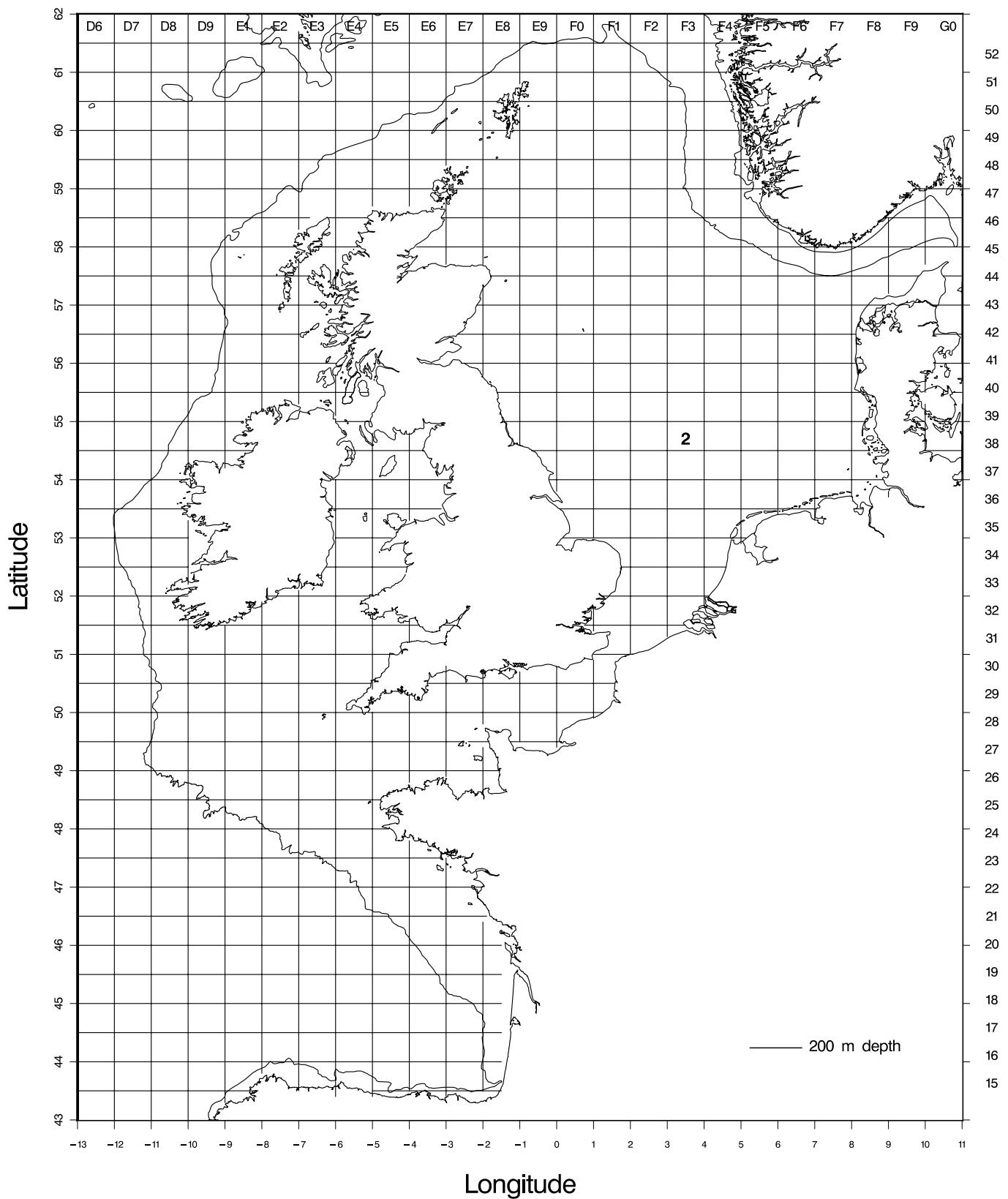


Figure 20d: Ray cuckoo quarter 4 2005

Number of age/length samples of commercial catches per ICES rectangle

Institute for Marine Resources & Ecosystem Studies (IMARES)
Overview of samples
Generated: 16NOV2007 10:33:16

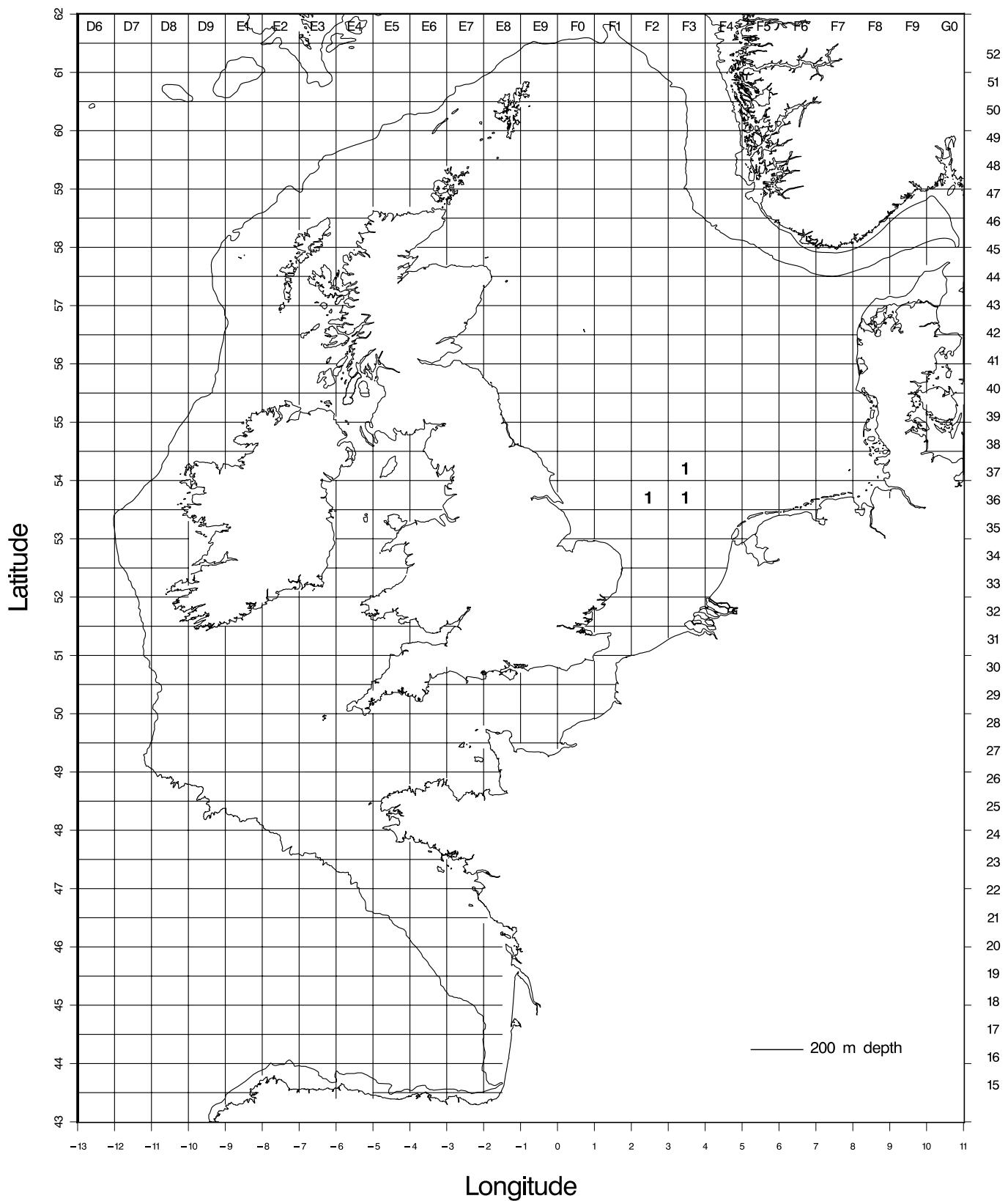


Figure 21b: Red mullet quarter 2 2005
Number of length samples of commercial catches per ICES rectangle

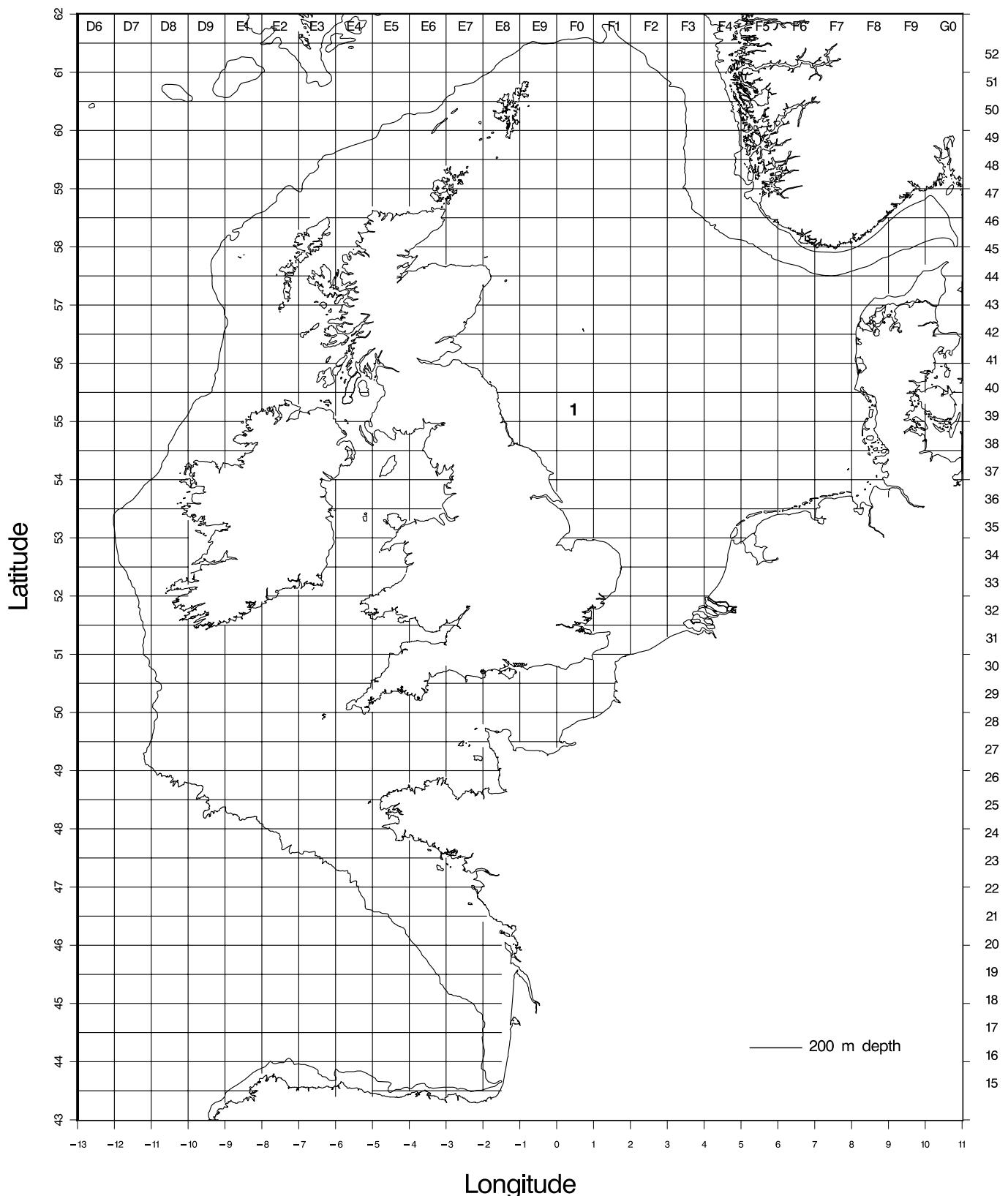


Figure 21c: Red mullet quarter 3 2005
Number of length samples of commercial catches per ICES rectangle

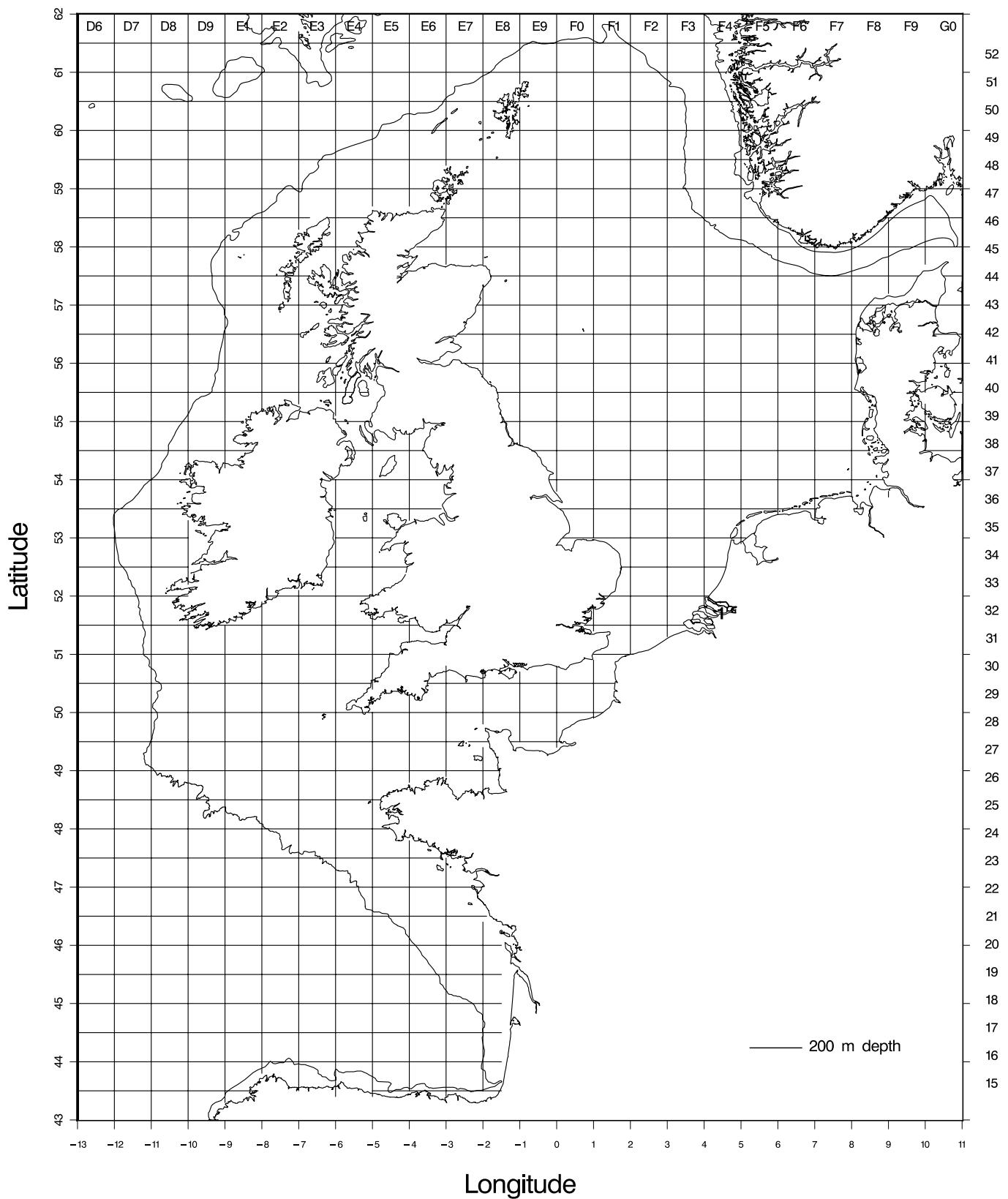


Figure 22c: Bass quarter 3 2005

Number of age samples of commercial catches per ICES rectangle